1940

1940

1940

1940

cable

1940

1940

1940

1940

1940

GUY GAYLOR CLARK

1940

C

1940

ABLE

EDITOR-IN-CHIEF FRANCIS E. MEDON

BUSINESS MANAGER GEORGE EVERSON

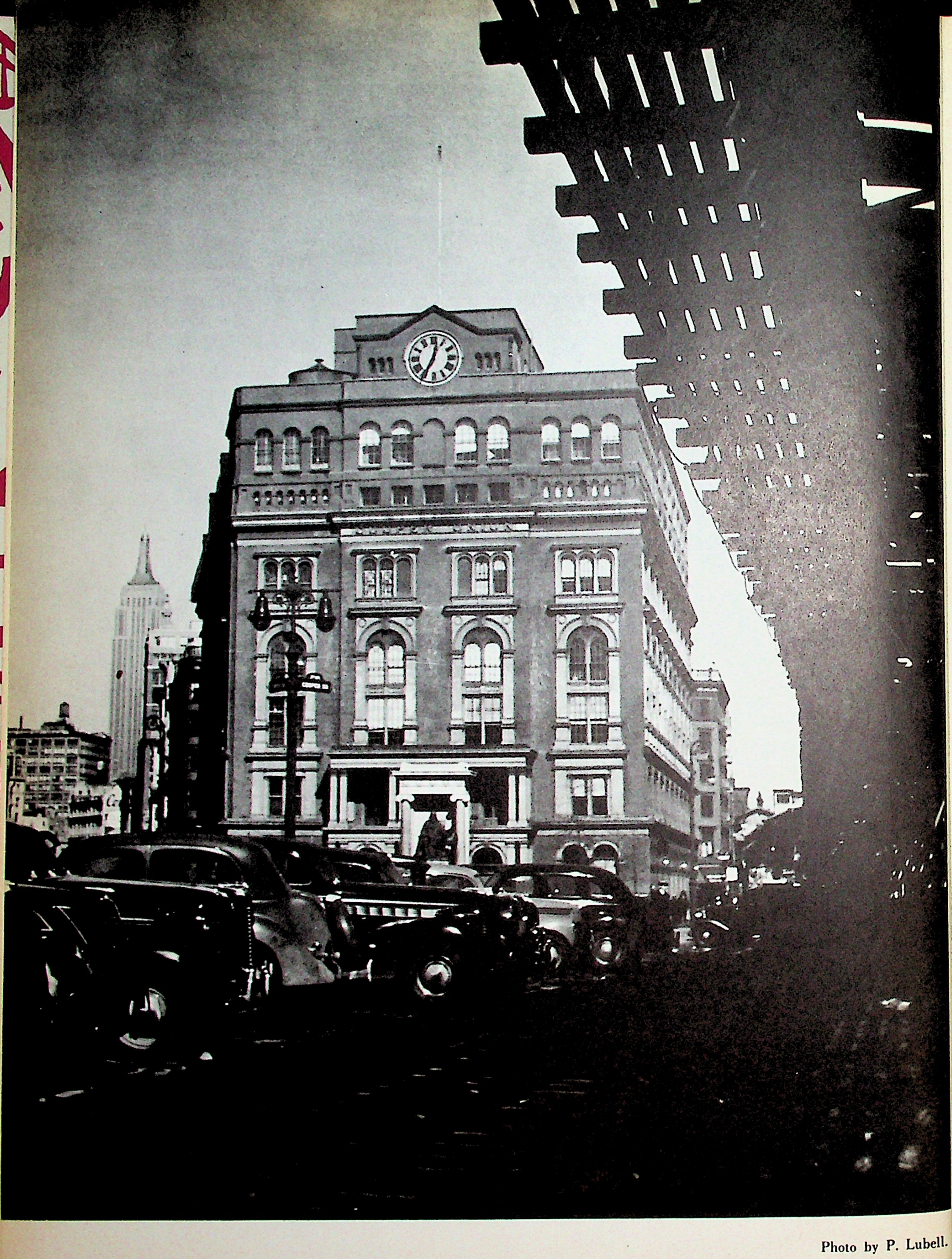


Photo by P. Lubell.

CONTENTS

BOOK I **PAGE 6**

Introduction
Dedication, Trustees, Director, Dean, Art Director, Museum.

BOOK II **PAGE 15**

Classes
Pre-engineering, Chemical Engineering, Electrical Engineering, Mechanical Engineering, Civil Engineering, Art School.

BOOK III **PAGE 61**

Graduates
Graduate Farewell, Graduates, Transition, Celebrities.

BOOK IV **PAGE 95**

Activities
Athletic Association, Athletic Awards, Varsity Basketball, Rifle, Fencing, Water Polo, Intramural Basketball, Student Council, Activity Plan, The CABLE, The Pioneer, A.I.Ch.E., A.I.E.E., A.S.C.E., A.S.M.E., Art Affairs, Dancing Club, Chess Club, Priestley Tech, Honor Awards, Annual Dance, Camp Alumni, Mu Alpha Omicron, Ex Post Facto, Lambda Tau, Omega Delta Phi, Phi Sigma Omega.

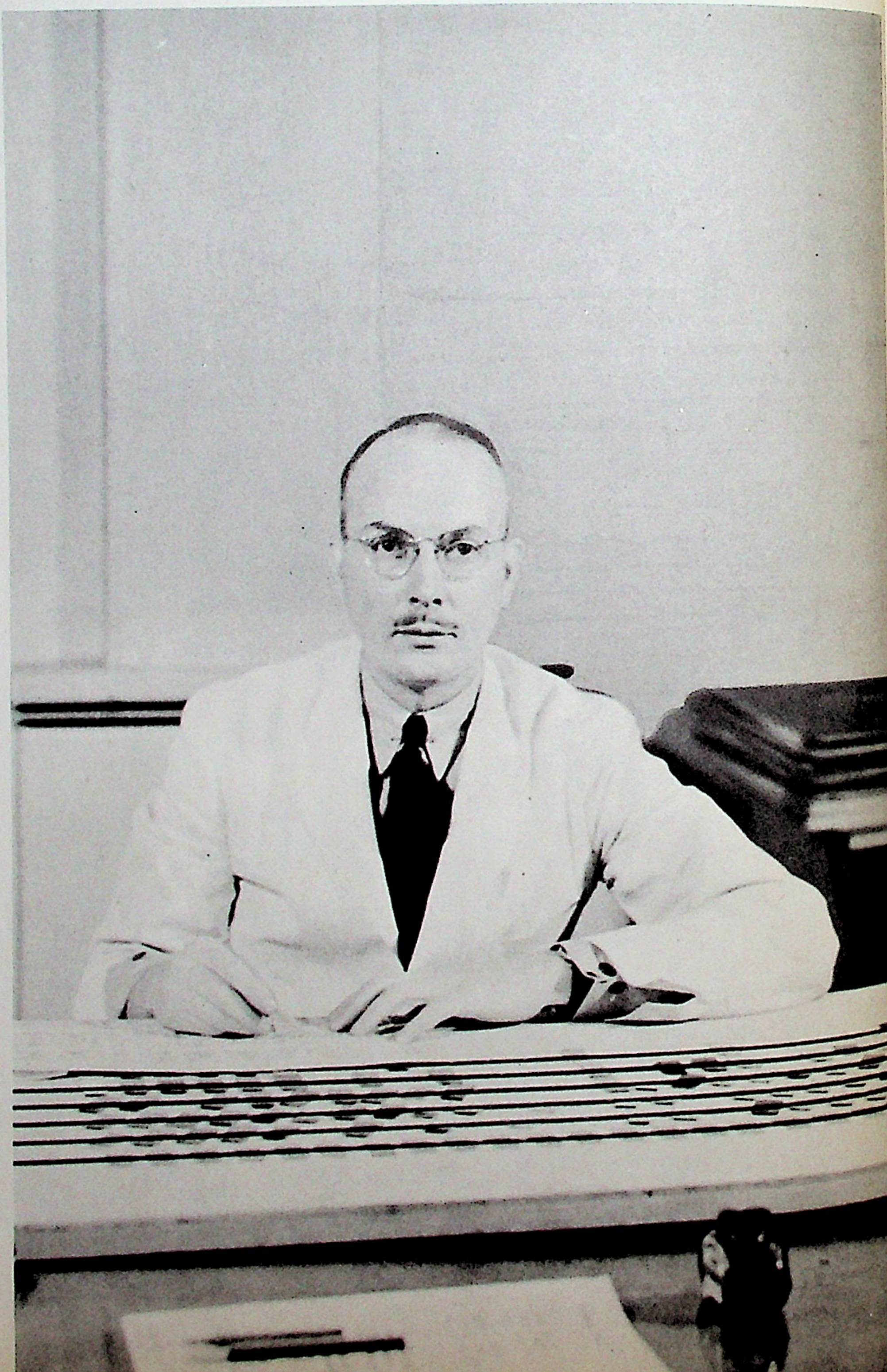
BOOK V **PAGE 149**

Roster

Senior Roster, Advertising, Acknowledgments.

ESMOND SHAW

ASSISTANT ART DIRECTOR

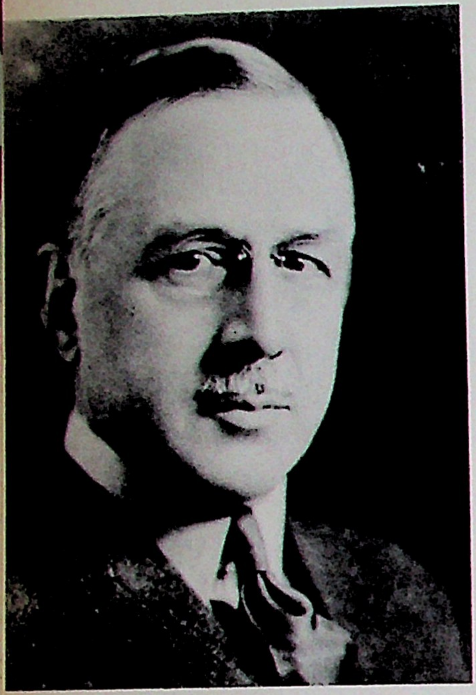


DEDICATION

We of the CABLE Staff, as a small group representative of the entire faculty and student body of the Cooper Union, wish to express our appreciation of the worthy services of Mr. Esmond Shaw. Because of his intimate understanding of our problems and his willing assistance, we were able to complete this yearbook. Not only in this matter does Mr. Shaw's cooperation appear. He has brought about a close association of faculty and students by his kindly informality in dealing with the student body.

Though we realize that this is but a small acknowledgment of the recognition of which he deserves, we dedicate this book — our 1940 CABLE, to him.

TRUSTEES



GANO DUNN

The Cooper Union is fortunate in having an exceptionally active and interested group of men in charge of its administration. The group includes: Gano Dunn, President; Edward L. Rehm, Secretary; Robert J. Winthrop, Treasurer; and the trustees, J. Pierrepont Morgan, Walter S. Gifford, Barklie Henry and Eliu Root, Jr.

Since 1935 Gano Dunn has been President of Cooper Union. He is also a trustee of Barnard College. He received the degrees of B.S. from C.C.N.Y., E.E. from Columbia University and M.S. from C.C.N.Y. In addition he has received the honorary degrees of Master of Science and Doctor of Science from Columbia University. He is president of the J. G. White Engineering Corporation. In 1933 he received the Townsend Harris Medal of C.C.N.Y.; in 1937, the Edison Medal of the American Institute of Electrical Engineers of which he was president (1911-1912), and in 1939, the Hoover Medal, a joint engineering society award. He was President of the New York Electrical Society 1900-1902, of the United Engineering Societies 1913-1916 and of the John Fritz Medal Board of Award 1914.

Edward L. Rehm was elected Secretary in 1926 after he had been Assistant Secretary for eight years. According to the Code of By-Laws which was adopted at the first meeting of the Trustees of Cooper Union in 1859, the Secretary "shall have the general oversight of the various departments of the Union, and manage its scholastic operations; shall be the organ of communication with the community; shall make quarterly reports to the Board of the progress of the various departments of instruction; and shall assist in the engaging of lecturers and instructors, and in the selection of appliances of instruction and improvement; shall assist in making the rules and regulations for the different departments." In these ways the Secretary with his assistants is in contact with the general public and with the students more than any other of the administrative officers. The Office of the Secretary is really responsible for keeping the machines of the school running smoothly.

Robert J. Winthrop, general partner in the New York banking firm of Robert Winthrop Co., succeeds Percy R. Pyne, Jr. as Treasurer and trustee. Mr. Pyne, who had been Treasurer of the Cooper Union for 15 years, resigned because of ill health. Mr. Winthrop, a native of Boston, Mass., is a graduate of Harvard, class of 1926, and is director of several banks, realty companies and railroads.

J. Pierrepont Morgan has been a trustee of the Cooper Union since 1912. He received his A.B. from Harvard in 1889, and has been honored with an LL.D. from Trinity College, 1918; from Cambridge University, 1919; from Harvard, 1923; and from Princeton University, 1929. Mr. Morgan has received also the degrees of D.C.S. from N.Y.U. in 1922 and of D.C.L. from Oxford University in 1930. He is head of J. P. Morgan and Company, Director of the United States Steel Co. of New York and the Aetna Insurance Company.

Walter S. Gifford, president of the American Telephone and Telegraph Co., is also a trustee of Johns Hopkins University. A fellow A.I.E.E., he received his A.B. from Harvard in 1905, and has been twice honored with an LL.D., from Williams College in 1928 and from Colgate in 1929. He also received an honorary D.Sc. from Oberlin in 1929. Mr. Gifford's interests center in his home and gardens. He spends his weekends in his small Colonial farmhouse near Armonk, where he enjoys reading and gardening. Mr. Gifford is also an author. One of his recent books, published in 1930, is "Can Prosperity Be Managed?"

Barklie Henry, the freshman of the Cooper Union Board of Trustees, became a trustee in 1935, at the age of 32. He was elected to fill the vacancy created by Mr. Dunn's elevation from trustee to President. Mr. Henry also serves as a trustee for the St. Georges School, Newport, R. I., and the Green Vale School in Roslyn, L. I. He is an enthusiastic skier, and during the summer he enjoys tennis and yachting. He is a director of the United States Trust Company of New York, Blue Ribbon Books, Inc., and Reynal and Hitchcock, Publishers. He is also a director of the Milbank Memorial Fund and President of the New York Association for Improving the Condition of the Poor.

For the past eleven years, Elihu Root, Jr. has been trustee of the Cooper Union. At Hamilton College, where he also earned his Phi Beta Kappa, he received his A.B. in 1903 and his A.M. in 1905. In 1906 he received the degree of LL.B. from Harvard. Mr. Root is a trustee also of Hamilton College, his Alma Mater, and of the Metropolitan Museum of Art. In addition to Phi Beta Kappa, he is a member of Sigma Phi and of the University, Harvard, Century and Knickerbocker Clubs.

DR. EDWIN SHARP BURDELL

Another year has passed and Dr. Burdell is looking toward the end of his "Sophomore" year as Director of The Cooper Union. By this time the students, especially the new arrivals, are inclined to take the presence of the Director for granted. This fact in itself is a tribute to his ability to adapt himself to his office. However, those who have attended Cooper Union for more than the two years of his administration, realize what a profound change has been brought about through his presence. The faculty and students are grateful for the invaluable work done by Dr. Burdell.

DEAN GEORGE F. BATEMAN

George Frederick Bateman was appointed Dean of the Engineering Schools in May, 1933. Prior to this he served as Chairman of the Student Relations Committee, in which capacity he helped the students solve their individual problems. Even though he is no longer a member of this committee, the Dean still has an interest in student problems, and will cooperate whenever possible with the student in the solution of these problems.

By virtue of his sincerity and interest, he gives the students more confidence in themselves and their abilities. Through personal interviews with the Dean, the students have come to value the counsel which he is always willing to give.

GUY GAYLOR CLARK

The Art School can indeed be proud of its director. He is a man who has shown his vision, ability, and leadership by the success of the changes he has introduced for the benefit of the students since he assumed the directorship of the Cooper Union Art School.

His past also speaks well for him. He has held two Cornell scholarships and distinguished himself in the field of advertising design.

We sincerely hope that Mr. Clark will continue to be with us and give the students the benefit of his able leadership and learning.

CLASSES

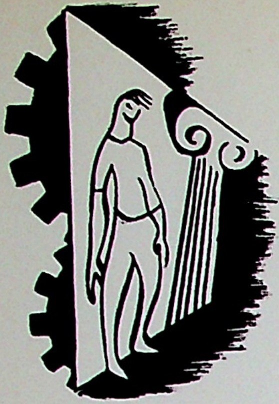
I REPRESENT a typical Cooper Union student. I am any student you see in or around the halls of Cooper Union. I may be an engineer or an artist. I may go to day or night sessions. My former schooling may have taken place in either a small town or a big town, my high school may have been academic or technical, several of my years may have been spent in other colleges, but here in the melting pot of Cooper Union, I enjoy that old proverb — one for all and all for one.

PRE ENGINEERING

College at last, the first actual step toward an engineering career. With exams concluded we who were successful started our career at Cooper Union and became the class of '43.

From the very beginning the severity of competition at Cooper Union was shown to us by the difficult exams and other requisites for entrance which decreased the original applicants in number to the 100 who now comprise our class. But little did we know that our troubles were only beginning.

In high school, matters had been comparatively simple. We had all been good students and had little difficulty with the easy work. Homework was light and we even had time to sleep at night. But when we began in college, all that changed. The work, while not exceptionally difficult was over-abundant. During the first semester we were assigned a full program of class work, 30 hours a week, which is more time than any other course is given. The



Prof. Wm. S. Lynch

Prof. E. T. Bullock

Prof. Walter S. Watson

second semester we were programmed for 28 hours a week, still more than any other course. This arrangement would give us two free hours a week—but no, this must not be—such a rash misuse of time must be eliminated. So the matter was reconsidered and a new course was added to our program, bringing our class up to 29 hours. Someone must have overlooked that extra hour.

Another item with which the school is over generous is homework. The catalog indicates that we should expect 25 hours of homework each week (but what teacher ever reads the catalog?). A consideration of the prodigious amount of homework assigned (but we admit, not necessarily performed) precludes all possibilities of a normal amount of sleep. However the crowning indignity is bestowed upon us by the teacher in telling us (as many of them do) that he fully realizes the weight of our homework burden and he doesn't wish to unnecessarily increase it, but will we in *our spare time* read these books or do these additional problems? We are still wondering to what spare time the teachers refer, we have asked them but as yet have received no satisfactory answer.

Perhaps they allude to the interludes between periods when no instructor is present and the class has marksmanship and skirmish practice while erasers and chalk missiles fly about the room. However there is a more serious side to our school time. In section one, it might be said, there is a very good cross-section of the class. Serious men such as Epstein

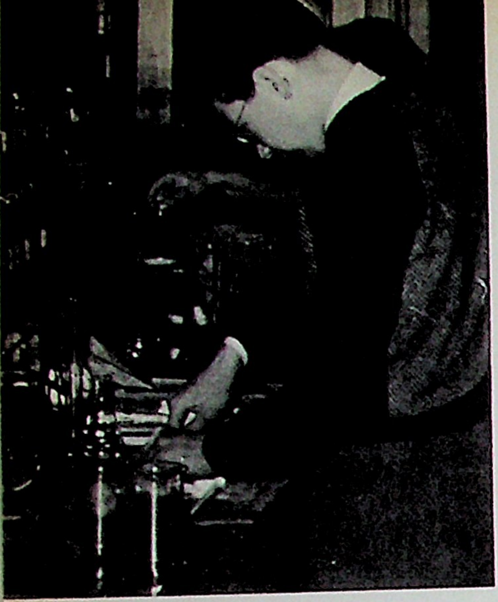
Stephen Yando, Secretary; Charles Meyerson, Vice-President; Charles Erway, President; Israel Jaffe, Treasurer.

and Corrio spend their spare minutes arguing about solutions to analytic problems while behind them some of the more frivolous and wasteful engage in the before mentioned skirmishes. This section claims to have the German Royalty in its group in the form of Baron F. Wolfgang von Diederich. This royal movie fiend claims to have conducted the Brussels Symphony Orchestra among his many experiences on the continent. Stanley Becker, the despair of all teachers (and students) also claims the title musician (harmonica). B. (North) Goldberg of section one shares with Meiselman of section three the great (?) honor of being persistently and consistently late.

In considering the notables of section two it should be said that Ed Herszkorn is noted for his many exploits in the chemistry lab, the math class, and the basketball court. He has worked hard as captain of the intramural team, even in defeat. This class also is distinguished by the presence of John Hinz who writes those endearing little verses about Adolf. Another female student has marched into the school, Nancy Johnson, and we must admit that any girl who can finish out such a course has perseverance and pluck.

Section three seems to take the honors in sports with Fred (Red)

Top Row: I. Lefkowitz, C. Meyerson, S. Meiselman, H. Maron, H. Wells, B. Soroka, J. Weisbin, E. Peluso, S. Smookler, J. Weidenman, J. Kenhart, P. Kasakalian, A. Schilling, E. Plassman, M. Graf, B. Lerner, F. Walsh, I. Jaffe, K. Korn, Z. Baczewski, R. Wolf, K. Hesse, S. Yando. *Bottom Row*: J. Lewin, J. Hirsch, T. Halabi, F. Evans, T. Schachat, H. Goldgraber D. Kaplan, S. Solomon, E. Herzkorn.



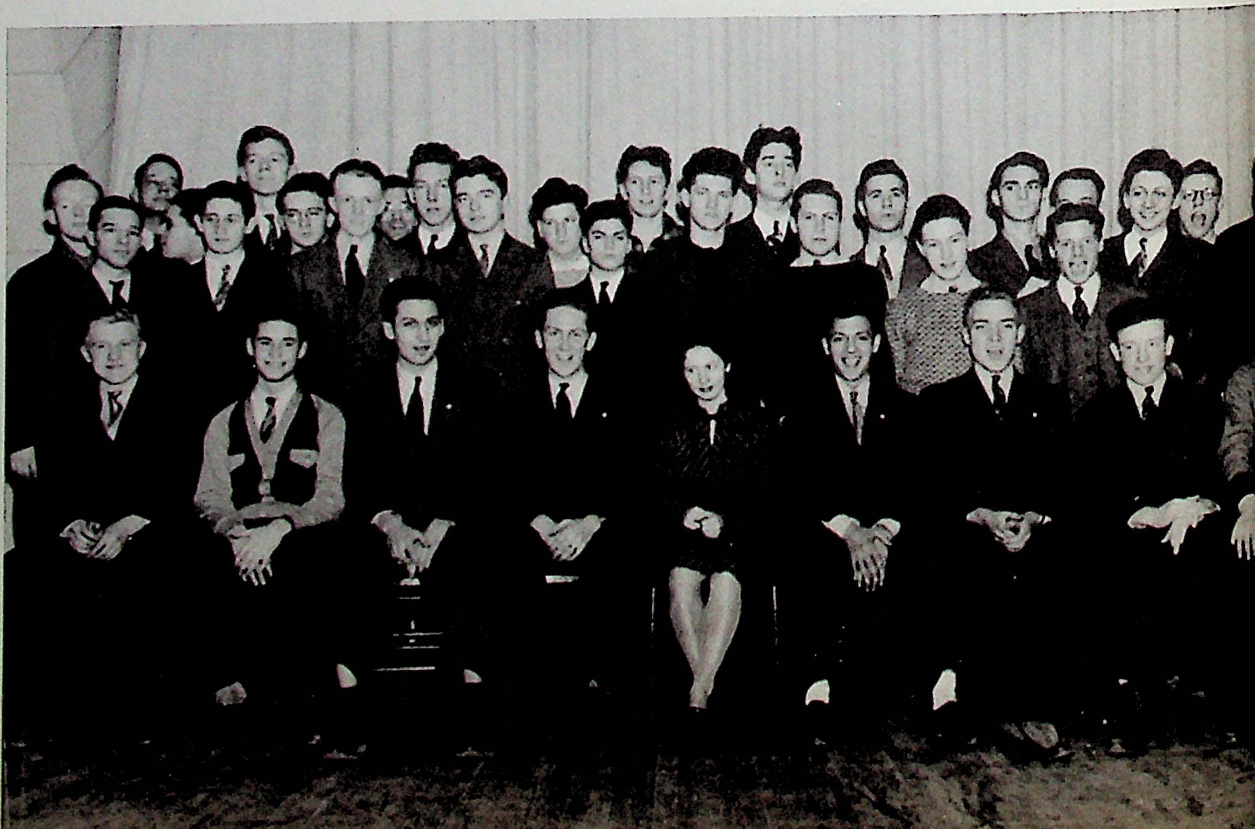
Rivas of the basketball team and Rossbach, the fencer. The expert prestidigitators of the class appear from all outward appearances and observations to be Rossbach and Richter. From reliable sources it has been heard that Pecan, the exponent of the rampant eraser, can drop a piece of chalk into a luminaire from any angle while in any position.

In section four we meet the causes of the sectional rivalry between sections one and four. However, we must give them credit for producing many of the members of our intramural basketball and swimming teams among whom are Selman and Sicular. The giants of section four include Sam Smookler, Day Tech Editor of the *Pioneer*, and the Stanley of this division (Zimmerman), Professor Hope's problem child. But, of course, we must not forget their mental genius, Soroka. It has been claimed that he worked the root of an equation to twenty-five places by Horner's method, believe it or not.

The Freshman issue of the *Pioneer* was, we feel, the best issue of the term. The production of this issue was performed by an editorial staff consisting of Sam Smookler, Milt Minneman, Byron Cohen, and Eugene Plassman.

At the beginning of the term, Charles A. Erway was elected to the post of president of the

Top Row: E. Herzkorn, A. Kuzmickey, H. Wells, A. Selman, H. Grad, J. Hinz, F. Diederich, C. Erway, R. Dahl, W. Lapple, I. Jaffe, H. Immerblum, S. Solomon, B. Soroka, S. Zimmerman, S. Smookler, J. Weisbin, W. Wirfel, A. Cooper, F. Rivas, H. Goldgraber, W. Romaine, B. Cohen. *Bottom Row*: M. Volz, F. Squire, A. Miccioli, J. Weidenman, N. Johnson, E. Peluso, J. Sieffert, F. Walsh, L. Epstein.



W. Horodeck, President; J. Churko, Vice-President; E. McCarthy, Secretary; M. Birkenfeld, Treasurer.

Freshman class and has since represented the Freshman class (and section one) to the best of his ability. Charles Myerson, Israel Jaffe and Steven Yando became vice-president, treasurer and secretary, respectively.

During our first few weeks sojourn at Cooper, a serious crisis loomed before the Freshman class. The predicament developed as a result of historic Adolph's refusal to transport Freshmen in his historic elevator. Bernard Lerner's visit to Dr. Burdell's office resulted in success for us, much to the dismay of Adolph who would rather "elevate" the Art School girls.

In one semester a student gets many impressions of teachers, but we feel sure that all will agree that Mr. Halsey surprised us most when he threatened to exterminate by means of a gun, the Goon Chile, B. Cohen.

With the coming of spring the Freshman class seems to have become restless. Throughout the long winter months the slaving without ceasing seems to have left an impression upon the class. Already two sections have been punished for carrying it a bit too far. One of our belovered (?) teachers has suggested that we use this pent up energy to walk to the seventh floor instead of tor-

Top Row: L. Mowell, H. Brenner, J. Stringham, J. Broderick, J. Bisen, E. Greening, C. Borst, J. Gross, W. Brand, F. Earle, Z. Ackerman. *Middle Row*: H. Harris, H. Newby, J. Gold, A. Garfinkle, H. Ehringer, R. Hansen, Herrmann. *Bottom Row*: F. Diemer, M. Brooks, T. Egelson, Z. Geanes, E. Reeves, W. Bradley.

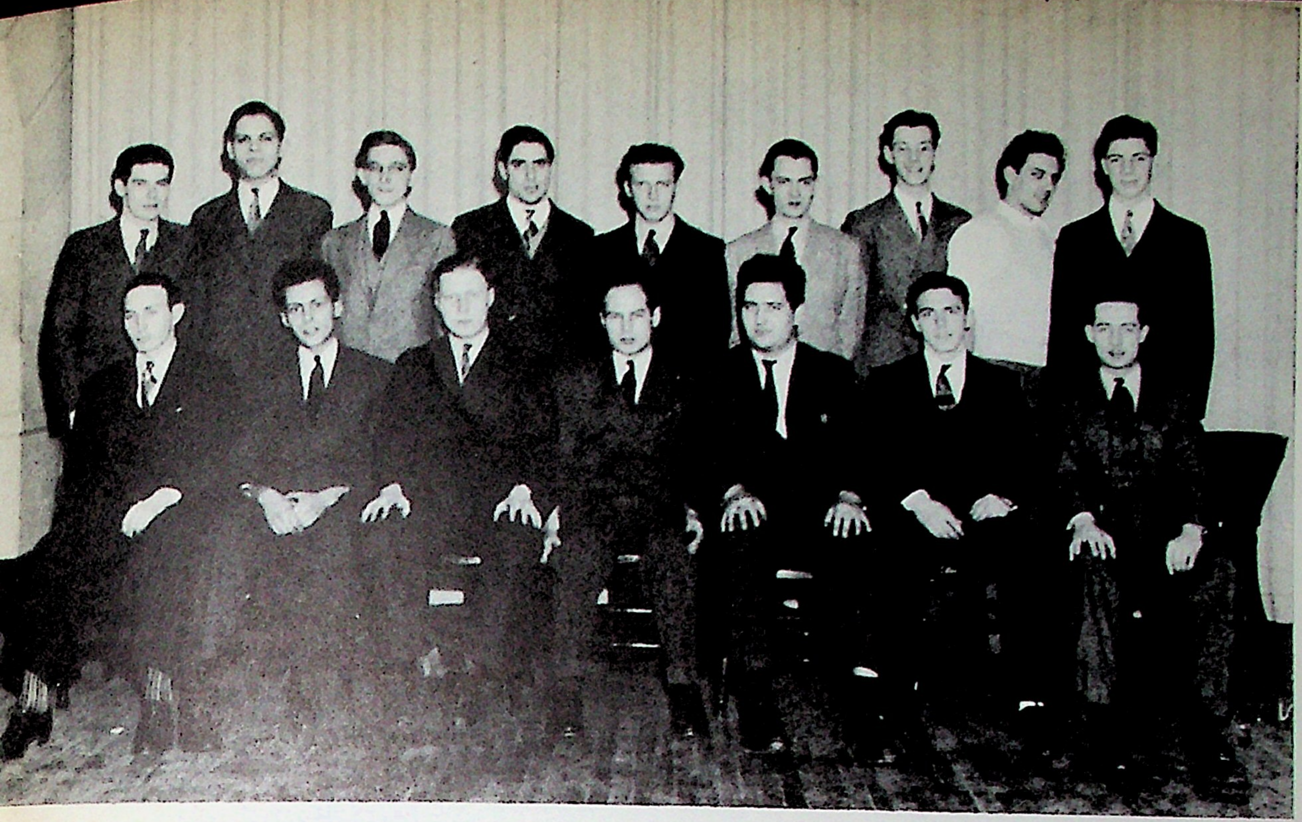
Top Row: Schiller, W. Romaine, E. Plassman, P. Nardone, H. Schwiebert, O. Parr, D. Siljegovich, S. Miskura, M. Strauss, W. Sittner, I. Herzkorn, J. Sealy, J. Smith. *Bottom Row*: B. Lerner, F. Evans, S. Solomon, J. Weisbin, H. Wells, G. Sicular, J. Shifman, S. Smookler, B. Soroka.

turing poor Adolph by straining the cables on the elevator. However, most of us are inclined to think this is a bit too much to expect of anyone so we continue in our previous ways, under cover, let someone notice our leisure activities and add another hour of work.

Nevertheless, by laws of probability and averages it is found that there is a slight possibility of some of us composing the Sophomore class next year. Surely this is a great inducement for there are more than three free periods for everyone.

On registration day last September, a bedraggled group of Night Tech men assembled on their familiar battleground, Cooper Union, to enroll for the second round of their six round bout.

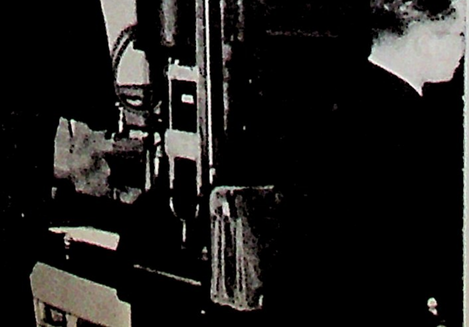
When registration was over, friends of the previous year gathered together in small groups, renewing acquaintances and engaging in idle talk. Some tall tales were told by returning vaca-



Top Row: E. Sacher, A. Wimmer, R. Thierry, M. Young, J. Tanenzapf, H. Sutherland, A. Scott, A. Svirchev, E. Rausch. *Bottom Row*: J. Barrett, L. Peyser, S. Shapiro, M. Rainish, J. Rabinowitz, J. Rey, J. Fedyna.

tionists. Bill Horodeck and Lennie Prosbitsky recounted their Odyssey on a bicycle through darkest New York State. Mike Aissen and "Flash" Gordon were runners-up in the tall tales contest with their stories of adventure in the Palisades where Mike was saved from starvation by the discovery of a raw potato.

On the following Monday, the class year was officially begun, and the class of '44 was plunged into a new series of difficulties, of which Physics Lab was the foremost. We had scarcely finished congratulating ourselves upon no longer having to spend weekends on drawing plates, when the deluge came! . . . That first Physics Lab report—Red ink, blue crayon, green crayon, red crayon, slashed through the pages. "Why, How, When, Where, Vague, Define, Explain, NO!, and Please Report" met our eyes. We began to realize, with each succeeding report, how little we knew about Physics, and how much we were expected to know.



Yet there was a lighter side to our work, as well, found in the lectures:—Professor Ball's ever-interesting experiments kept the class open-eyed from beginning to end. In Chemistry lecture, the genial personality of Professor Hope earned for him the liking of the entire class. As evidence of this, they presented him with a large red apple. His obvious pleasure at this gift called for an encore, so in the following lecture he was presented with a bushel-basket full of apples. Unfortunately, no photograph exists of this historic incident so that the expression on Professor Hope's face is forever lost to posterity.

Another well-liked instructor was Professor Jeffrey. His aptly termed "Fellow Students" participated actively in discussions of social relationships. One of the highlights of these discussions was Ostriker's dissertation on whether or not fish know how to swim, in which he proved that they did not. In recognition of Professor Jeffrey's efforts, the class of '44 presented him with a hand of bananas (numbering some 100). This occasion, unlike the previous one, was recorded by a candid camera fan.

In addition to scholastic activities, many of us succeeded in finding time for recreation. Ice skating parties were very popular. Some of the more ardent followers of this sport included Herby Gradler (who showed up with a new girl every time), Walter Garrison, George Garoufis, Tore Anderson (and his sister), Lennie Prosbitsky, Manny Kaufman, John Anderson, Walter Barron, John Galinski, Gregory Banikiotes and George Hepp.

Top Row: M. Hanig, A. Odierno, T. Anderson, W. Garrison, H. Enberg, Sala, M. Birkenfeld, J. Erickson, H. Betts, J. Broker, G. Hepp, W. Oestreicher. *Middle Row*: P. Grafstein, G. Garoufis, E. Cutler, M. Antonazzi, L. Probitsky, G. Cohen, W. Horodeck, J. Ciampaglia. *Bottom Row*: H. Beener, J. Anderson, J. Borron, G. Banikiotes, J. Churko.

introducing a CHEMICAL engineer

If you should ever walk through the fifth floor on Tuesday you would hear weird sounds emanating from the Ch.E's sweatshop, namely the Quant Lab. Here the embryo Chemical Engineers are at work. Whereas most of our time last year was spent in looking for things we knew weren't there, this year our chief endeavor is to discover how much of it we have. Unfortunately guesses can no longer be relied upon this year since the law of Probability is too much against us. The only road to glory here is hard work, and that is what the 2nd year Ch.E's are really doing, that is, when we're not busy breaking crucibles or beakers, or swapping stories in

CHEMICAL ENGINEERING

Prof. C. S. Sherman

Prof. Henry B. Hope

Prof. A. H. Radasch

Raymond J. Kunz

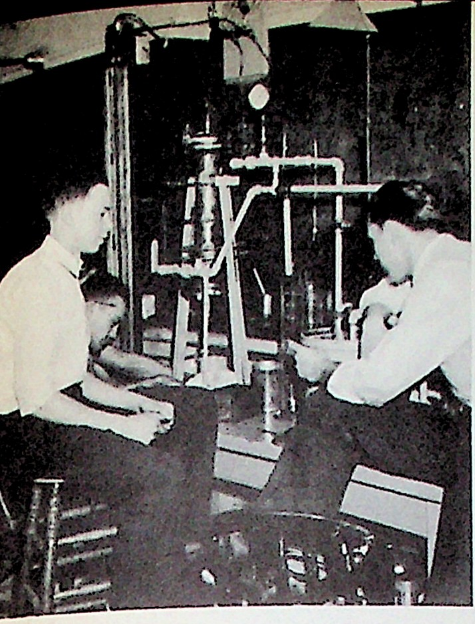
the balance room about last Saturday night, as Ed Fitzgerald, Gordon, Bud Medon, and Bob Atkins so often do.

Charles Merz should have become a salesman instead of an engineer for he can sell you anything from a rubber apron to a chemical handbook if you listen to him long enough.

Miller and Harris are the Fuels and Combustion experts so much in demand in all the other engineering sections.

One of the favorite pastimes of the Soph students still is a good old fashioned board eraser fight. Schmitt, Feldon, and Klamkin take a particular pleasure in partaking in these little feuds.

There is just one thing which still gives the 2nd Ch.E.'s trouble, and that is this matter of finding the end-point. Every once in a while a group of students may be seen hunting for Dr. Hope to ask him if they've reached the end-point yet.



Having survived the ordeals of the second year, we shall now delve further into the intricacies of Chemical Engineering as 3rd year Ch.E.'s.

As the section is not too large, greater intimacy and cooperation than otherwise is possible among its members. If there is anything outstanding about us, then it is the fairly even division of ability in the section. This is quite frankly recognized by us and probably is a factor making for greater friendship. However, the class is fortunate enough in that many of its members are pretty good in specific subjects and so are able to contribute to those whose ability lies in some other topics. We have learned how important and effective mutual assistance can be and believe that this is an important lesson to take along with us.

Now that only one more year of work separates us from graduation (we hope), we look back upon three tough years and can hardly believe that the same fellows who, three years ago on a hot day of August went through the entrance exam, may graduate a year from now.

As yet we have not passed the final hurdles, but we are still going strong, and before we know it, we'll be there. The third year Ch.E. class consisted of the following members:

Top Row: J. Friedman, H. Bouma, J. Rothmayer, G. Ferrigni, P. Horsting, R. Costa. *Middle Row*: E. Quinn, F. Schaefer, M. Slutsky, E. Von Storch, I. Machlin, H. Ruopp. *Bottom Row*: F. Quattlander, I. Rappaport, D. Muhlmeister, J. Weixel, B. McLaren.

Standing: Edward Barlow, Secretary; John Charlton, Treasurer; Frank Himmer, Vice-President. *Seated*: John Rozolis, President.

Everett Birmingham—the fellow who spends his weekends in Flushing, and is so much more tired on Mondays than on Fridays. Daniel Borsiczky — Plainfield's contribution to Cooper Union. He always complains that no trains run out to Plainfield between 12 midnight and 6 A.M. Tough luck old boy. Pelt Van Brower—our swing enthusiast who uses his little sister's bicycle since his car broke down. George Everson—who showed his bravery when faced with an emergency by using the fire extinguisher to put out a fire in the Organic Lab. P.S. He nearly missed. Hortley Fields—who is the custodian of our cherished football, William Keary—also known as Bill the Killer. His activities while playing football on our "campus" seriously reduced the number of healthy seniors for next year. But Bill helped his victims to pass Organic Chemistry which he certainly knows. Fred Kohler—also known as Einstein Kohler, whose theories even get the professors in a dither. . . .

Perhaps this year's quota of Chemical Engineers could be more appropriately entitled "Comical Engineers," for such they surely are. Even so serious a subject as Social Philosophy Colloquium assumes a lighter air when the Senior Chems are in

Top: G. Krulewitz, J. Friedman, A. Dworkowitz, J. Goldberg, L. Shapiro, H. Zuchino, S. Bernstein. *Bottom*: H. Sonberg, E. Zinberg, J. Zalinsky, S. Rabinowitz, G. Brown, G. Quinn, L. Wizemann.

Top: E. Fitzgerald, A. Teller, F. Medon, C. Merz, J. Schmitt, John Atkins. *Bottom*: S. Schaffer, S. Gordon, M. Klamkin, L. Weintraub, G. Miller, L. Gluckman, G. Tauth.

session, what with their rapid-fire witticisms and brilliant examples. Foremost among these, we will long remember the immortal words of one classmate, who, while attempting to illustrate the meaning of "Potted Thinking" (Chapter 6 in Stebbing—"Dear Old Stebbing") came out with the concoction, "Beryllium for Better Bridges." However, even this failed to awaken the five M.E. students who sit in with us—these men serving merely to help fill up the otherwise unoccupied rear of the room.

One thing definitely missing this year is the production of explosive gas mixtures (He pronounces it gezz) by one of our diminutive members. This cook-book chemist was good for at least one catastrophe per week in preceding years. Long will we remember his part in spilling a bottle of Sodium Peroxide down the sink—with such violent results that pieces of glass were found over by the Hewitt Building. It is stuff such as this that makes life the uncertain thing it is.

Here it is, the third year, and all those nice young men who thought that they had been admitted to the Cooper Union are beginning to wonder if they do not belong to the Cuckoo Union. The way in which the work has been coming and the time going,

Top Row: Paul Scherbner, Treasurer; George T. Smith, Vice-President. *Seated*: George A. Mazzitelli, President.

most of the boys are a little bewildered and are inclined to stagger along on their knees.

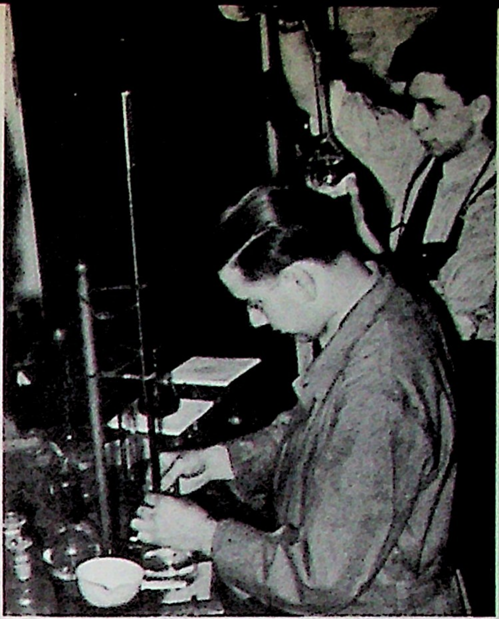
The 3rd year Night Ch.E.'s are a fine bunch of regular fellows. There's Vic Antaki, who can tell some pretty good stories about his uncle, one of those traveling salesmen; chess-playing Al Botvinek; and the little genius of the group, Emil Cimler. You can not leave out Fred Corvinus, who really gets around and has been on that Rancho Grande. Fred kept the class in good spirits on the Friday before Christmas because he had some of those spirits in him.

Joe Schrenock is a friendly fellow with a head for Calculus. Mr. Beiler's Calculus class was quite regularly entertained by Max Slonk, before the cold weather set in. Mr. Beiler would enter the room, glance to the back and address himself to Max, who was unfortunate enough to have an aisle seat in a back row, "Slonk, will you please close the windows." So Max would dutifully unravel himself from his seat and do the honors.

There are more on the list who could be mentioned, but we'll let the roll call stop here and go on to the Fourth Year.

The 4th Year Night Ch.E.'s returned with the impression that with Mechanics and Calculus be-

Top Row: D. Borsiczky, W. Keary, H. Bauma, G. Everson, K. Rothe, A. Dege, G. Ferrigni. *Bottom Row*: R. Costa, J. Scovronek, H. Field, V. Brower, E. Birmingham, B. Taranto.



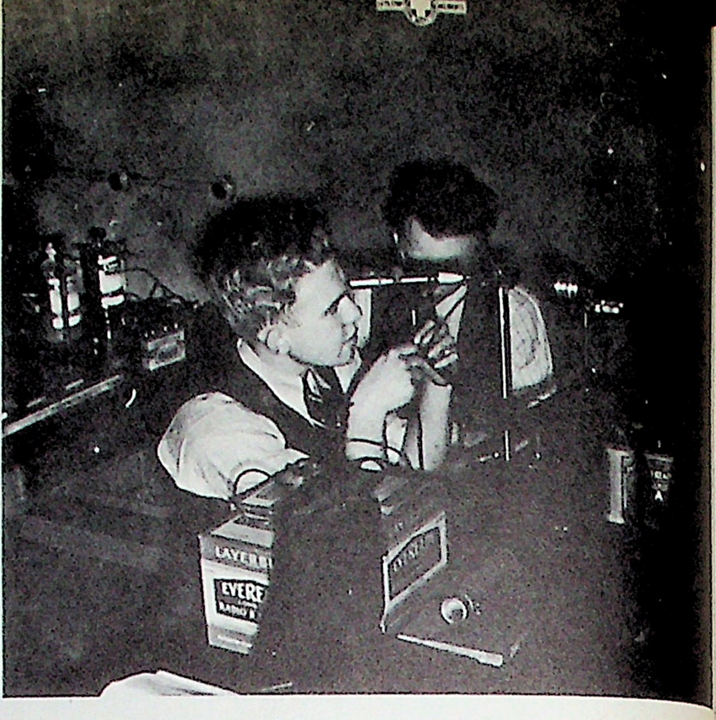
hind them, they were in for a short "breathing spell." However, some of the innocent-appearing subjects proved to be real sticklers.

Probably the least popular of the new acquaintances is German. Even the ability of Dr. Steitz is not enough to instill this subject into Bernie Barrett. Norbert Mullio can always be relied upon to give a new slant on pronunciation, and Bob Stewart still tries to irk the good Doctor with inappropriate remarks. Tundermann didn't have much trouble with this course—he had advance information.

Then there was Physical Metallurgy. No one took this very seriously. The school's most able marksman, Charlie Stephens, went down to ineligibility when the results of this course were made known.

All the boys liked Quant Lab best in spite of the fact that every period seemed to get us farther behind. Bob Rogge was our star analyst, closely paced by Timpe, Braun, and Kovaleski. Dr. Stolzenbach made himself the best liked instructor by his willingness to answer questions on any and all subjects.

Top Row: C. Sullivan, M. Rozene, I. Colen, A. Kuchinsky, H. Roistacher, J. Selman. *Bottom Row*: J. Keene, L. Nagoshiner, J. Gallery, C. Bernstein, J. Maurin.



Among things that helped break the monotony of the steady grind, we may consider the following:—Koretz's attempt to use a Meker Burner as a fountain.—Sloan's startling ability in Differential Equations class and Bob Stewart's inability to see the radicals in the integral tables.—Dr. Steitz's inability to see anyone else's jokes and vice versa.

All in all the year has been a stiff one and not at all the push-over we expected, but maybe next year without German and Differential Equations. . . .

After a lazy summer the return to school is a dark omen of the toilsome days to come, for the 5th year Night Ch.E.'s.

Many fond memories remain of the past summer and especially of our trip to the Amusement Area of the World's Fair. In preparation for the course in Mechanics of Materials, the engineers tested the elasticity of steel by driving and bumping those tiny electric cars. Gosh! didn't Harry Roistacher look cute in his baby hat, jitter-bugging on the stage at N.T.G.'s Congress of Beauty? The faculty, as well as students seemed to enjoy the finer things of interest at the Fair.

The fair sex from the Art School added much to the enjoyment of Fluid Dynamics whenever they used our classroom as a shortcut to other classes. Who can forget the night when the feminine artists dispossessed the hairy, hard-boiled engineers without a struggle?

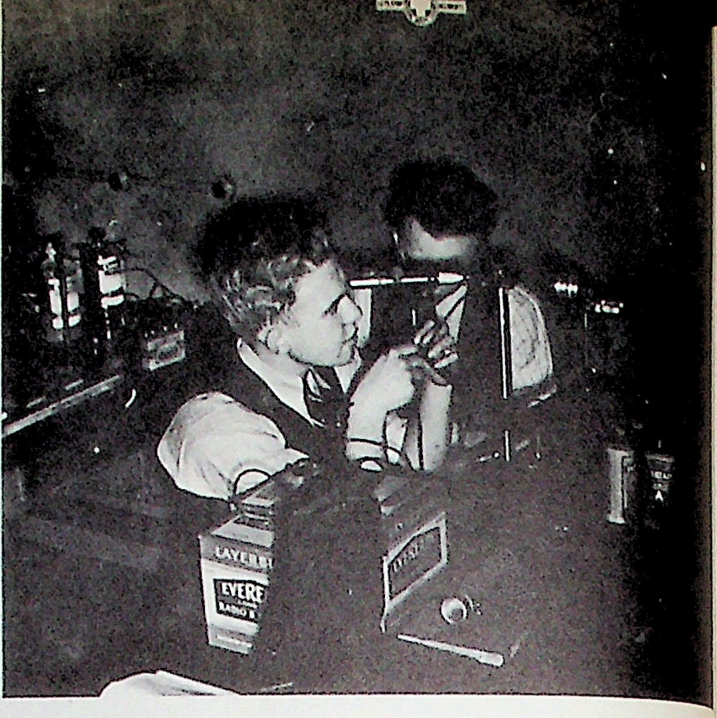
The way John Gallery and Harold Parsekian carry on it looks like slug at first sight. It is no longer any secret why Spellman and Kalifon run and hide whenever Sam Dixon, the big bad villain, appears on the scene. For advice on bowling, the class has a notable consultant in Sid Kossak—he'll air his opinions on the subject at the drop of a pin. 'Tis said Mel Rozene's new lab coat—sky blue—is a gift from his girl friend; she made it with her own itty-bitty hands. Moe Johnson is a stickler on definitions; ask Dr. Bullock who teaches Economic History.

The entire class is willing to wager that Charlie Faust will never flunk a subject. No instructor could possibly ever want to hear Faust's questions twice.

presenting an ELECTRICAL engineer

After the first year and a recuperation over the summer, we charged back into the game somewhat depleted in ranks, but determined that we would eventually become first class Electrical Engineers. From all sides we heard that the first year at college was the hardest, but not so at Cooper Union. Here it seems to be a progression without a limit, whereby we learn how little we know. Thus is the high and mighty feeling of a college Freshman whittled down to the narrow dejection of a lowly Sophomore.

All sections have at least one homework standby. The second year E.E.'s boast of Barlow and Cummins on whom they can count for homework. Ruvin certainly had a close shave all term—escaping one we mean. Koenigsberf,



Among things that helped break the monotony of the steady grind, we may consider the following:—Koretz's attempt to use a Meker Burner as a fountain.—Sloan's startling ability in Differential Equations class and Bob Stewart's inability to see the radicals in the integral tables.—Dr. Steitz's inability to see anyone else's jokes and vice versa.

All in all the year has been a stiff one and not at all the push-over we expected, but maybe next year without German and Differential Equations. . . .

After a lazy summer the return to school is a dark omen of the toilsome days to come, for the 5th year Night Ch.E.'s.

Many fond memories remain of the past summer and especially of our trip to the Amusement Area of the World's Fair. In preparation for the course in Mechanics of Materials, the engineers tested the elasticity of steel by driving and bumping those tiny electric cars. Gosh! didn't Harry Roistacher look cute in his baby hat, jitter-bugging on the stage at N.T.G.'s Congress of Beauty? The faculty, as well as students seemed to enjoy the finer things of interest at the Fair.

The fair sex from the Art School added much to the enjoyment of Fluid Dynamics whenever they used our classroom as a shortcut to other classes. Who can forget the night when the feminine artists dispossessed the hairy, hard-boiled engineers without a struggle?

The way John Gallery and Harold Parsekian carry on it looks like slug at first sight. It is no longer any secret why Spellman and Kalifon run and hide whenever Sam Dixon, the big bad villain, appears on the scene. For advice on bowling, the class has a notable consultant in Sid Kossak—he'll air his opinions on the subject at the drop of a pin. 'Tis said Mel Rozene's new lab coat—sky blue—is a gift from his girl friend; she made it with her own itty-bitty hands. Moe Johnson is a stickler on definitions; ask Dr. Bullock who teaches Economic History.

The entire class is willing to wager that Charlie Faust will never flunk a subject. No instructor could possibly ever want to hear Faust's questions twice.

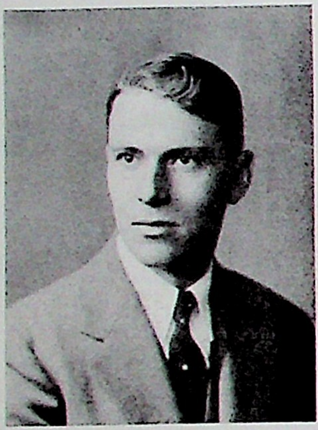
presenting an ELECTRICAL engineer

After the first year and a recuperation over the summer, we charged back into the game somewhat depleted in ranks, but determined that we would eventually become first class Electrical Engineers. From all sides we heard that the first year at college was the hardest, but not so at Cooper Union. Here it seems to be a progression without a limit, whereby we learn how little we know. Thus is the high and mighty feeling of a college Freshman whittled down to the narrow dejection of a lowly Sophomore.

All sections have at least one homework standby. The second year E.E.'s boast of Barlow and Cummins on whom they can count for homework. Ruvin certainly had a close shave all term—escaping one we mean. Koenigsberf,

ELECTRICAL ENGINEERING

Prof. Albert Ball



Prof. Ernest Starr

Prof. H. W. Reddeck

our E. & M. wizard, has had some trouble with his "ham" transmitter. We hope he doesn't come so close to being electrocuted as he has in the past.

Then we have our share of small town boys. Leon Alent is the original yokel boy from Rochester. Ask him about those Rochester girls. John Rozolis is a Coney Island soda-jerker who made good. Ralph Williams, from Keansburg, is a promising E.E. headed for a successful career (we hope).

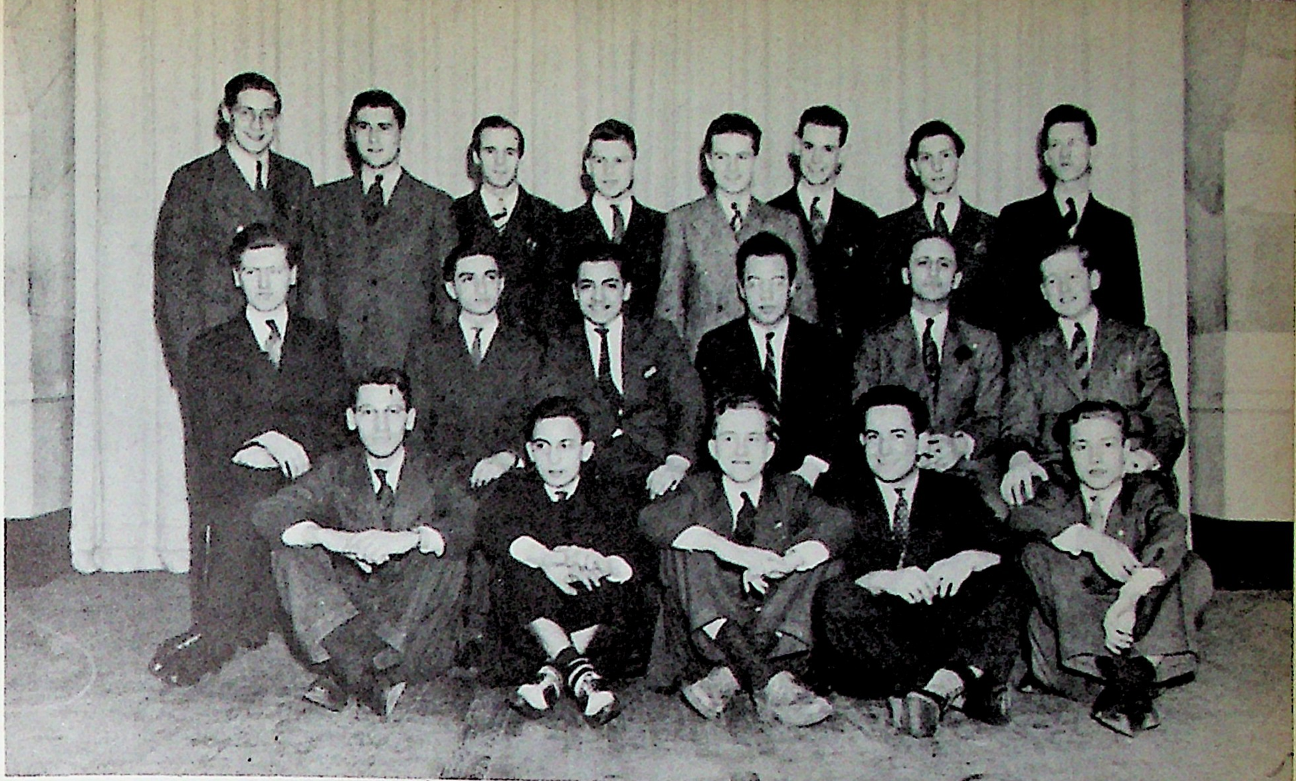
We also have an excellent basketball player, Bob Ohlson. Bok thinks basketball is more fun than that test tomorrow. The Rifle Team couldn't get along without our Myron Coe.

After another year, Dan Schwartz will stay at home Saturday nights, but Dan will miss those exciting plays.

The third year E.E.'s look back on the days when we were only freshmen. We were always in something of a daze then and probably showed it. Very few of us ever came out of that daze. The intricacies of first year work kept us rather busy (we thought) with only the occasional time to throw chalk and erasers at each other and into the street. (Some of us acquired this habit and carried it on up through the years as did our famous twosome, Harvey Sachs and Ben Lewis, now wallowing about in third year work.) But enough for the first year and for the second, too.

The third year work is just a maze of A.C. and D.C. and D.C. and A.C., and of trying to look intelligent.

Among the famous members of the class are Lewis and

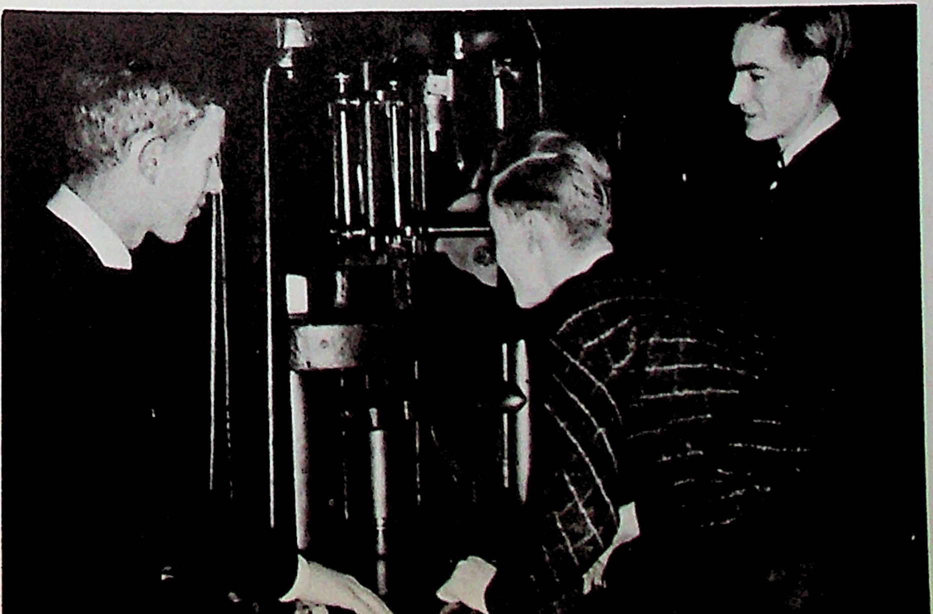


Top: F. Himmer, C. Stalls, Kurt Zell, M. Coe, S. Mehlman, H. Kirschbaum, W. Derganc, J. Comins. *Middle*: P. Van Der Vliet, A. Feinsilver, L. Fischer, H. Resnicow, G. Weiner, J. Charlton. *Bottom*: J. Rozolis, L. Alent, E. Church, A. Ruvin, R. Ascione.

Sachs, the harmony boys, who go around with the dumbfounded look of small poodles, and at the slightest provocation will spout the second movement of the fourth symphony of the fifth son of the Brahms family. "We was robbed" Spool spent more time working for the *Pioneer* and the football contest than on his own work. Ralph Medaisky and his parade of sports and dialectic arguments is surely a milestone (millstone—take your choice) in the annals of Cooper Union. There's "Red" Goldman, one of the ablest rubber-band shooters at Cooper.

Never shall we forget Mr. Lehman's, "Now you've got it," or Mr. Tallman's exams, or any of Professor Ball's lectures. The A.I.E.E. field trips were an integral part of our education. The charging back and forth in the rain from one building to the other was another obstacle in our attempts at lazy freedom.

The fourth year E.E.'s also look back to their second year for it was then that they first really became acquainted and laid the foundations for

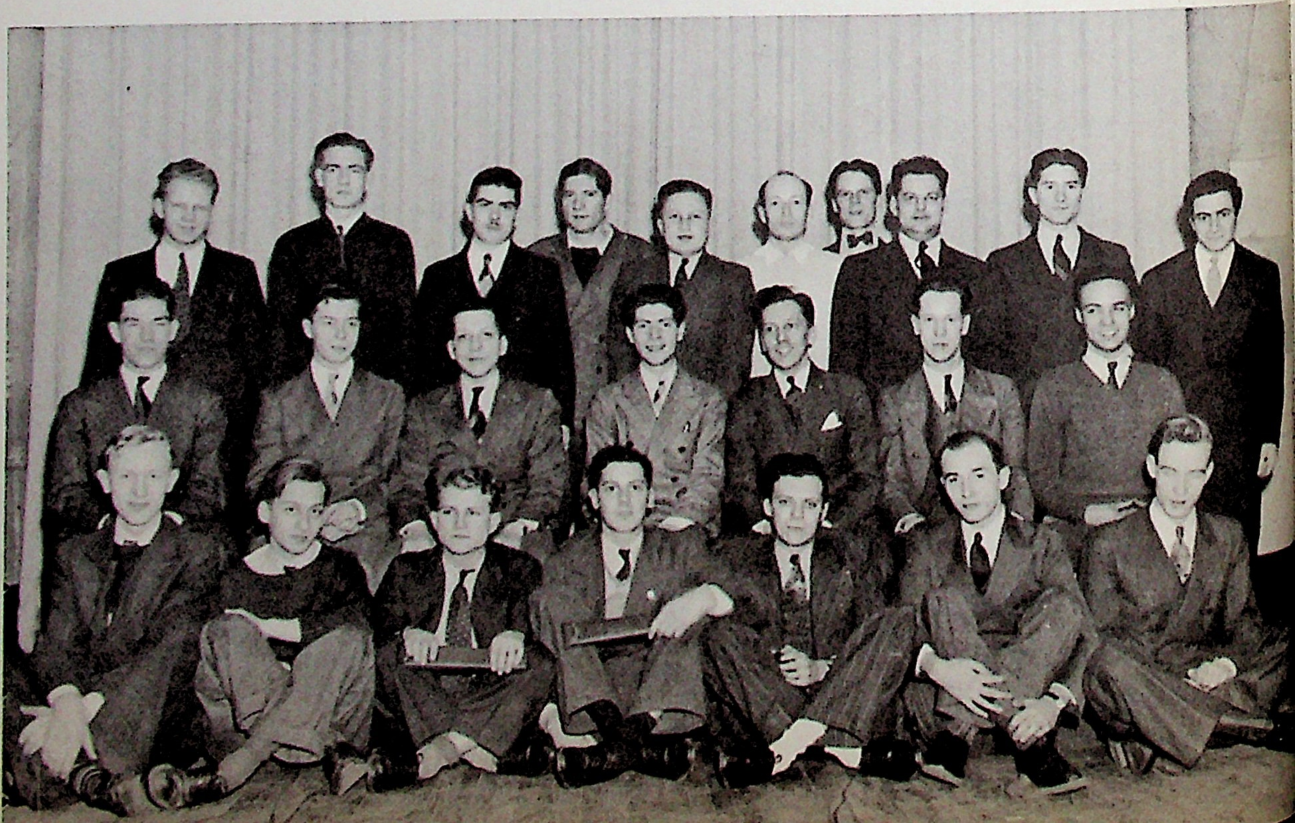


Standing: David Kurland, Secretary; John Caswell, Treasurer. *Seated*: George Clark, President; Robert Bayuk, Vice-President.

many lasting friendships. The year on the whole passed serenely, and it is with a feeling akin to nostalgia that we will recall the impromptu guitar serenades before the Tuesday morning Calculus class, and the many joyous hours spent playing chess in the Fuels lab, with one eye on the instructor and the other on a glowing crucible. Yes, it was indeed a pleasant year, especially for one chap, who, by repealing the laws of probability, regularly cleaned us all out matching pennies. However, the first warning of the approaching storm, in the form of a course in Electric and Magnetic Field (where Starling showed us that there was such a thing as a Differential Equation before the Math Department got around to it) went unheeded, and the class entered the third, and what was for many the deciding year, totally unprepared for the shock that was to come.

It is doubtful that there is one man with a clear memory of the first few months of the rude awakening, and as time passed, the burden, instead of lightening, steadily grew heavier. The nightmare of Diff Equations, revolving vectors, magnetic fields, daily quizzes, three laboratories, and a design course took its toll, and the mental condition of the class is best described by the satirical quality of the so-called jokes that were batted about during this period. It cannot be truthfully said that the class was in a state of nightmare on Thursday nights, for a prerequisite of a nightmare is that the victim sleep, however fitfully, and judging from the appearance of the class on Friday, no one ever slept Thursday night. But as the months passed, and the quizzes were flunked, a spirit of

Top Row: R. Bendett, J. Papamarcos, J. Spindler, E. Tanner, M. Tenzer, R. Medaisky, W..Zdan, I. Quart, C. Rosen, A. Sarant. *Middle Row*: J. Harrington, P. Kaufman, J. Port, M. Goldman, C. Cichoski, J. Caswell, W. Hollander. *Bottom Row*: E. Juhl, D. Kurland, S. Spool, B. Lewis, M. Dunefsky, C. Zeff, E. Thalmann.



Top Row: Alexander Gerbore, Vice-President; Stanley Rogat, Secretary. *Bottom Row*: Henry Flar, President; Fred Herr, Treasurer.

camaraderie gradually permeated the class, and the great value of closer cooperation became recognized.

With this lesson in mind, the veterans of the campaign of '38-'39 reassembled after a summer of catching up on lost sleep, with a more mature outlook based upon their experiences in utilizing to the utmost their reserve energies. More efficient, and less easily discouraged, the class began to make good its determination to enjoy to the utmost what was to be the last year before entering that mysterious place reverently referred to as "The Field."

The third year night E.E.'s began this year with the usual good intentions and resolutions. The first setback in our young lives came, however, in the first week of school when we were introduced to Physics E.&M. lab. This course, we soon learned, would require us to spend most of our weekends on reports. Our second "contact" with the enemy came in a communique from Mr. Tallman, the prexy of E.&M.I. Among other things, we were told that we couldn't pass the course without a copy of Atwood and a log-log slipstick. The only hitch in that statement was that after a month we didn't see much possibility of passing even with these fortifiers.

We were fortunate enough to have Prof. MacDonald for our Calculus class. It was in this class that A. Dubac showed his athletic prowess in rescuing the blackboard erasers from the electric

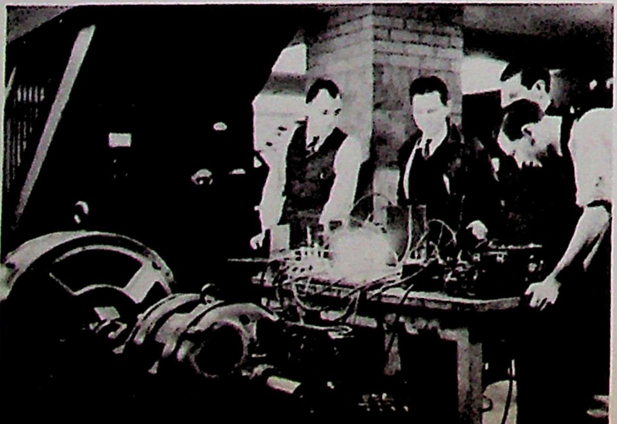
Top Row: E. Pataki, P. Dunay, S. Goldstein, A. Skorski, S. Feldman, E. Rathje, R. Franklin. *Middle Row*: L. Smith; P. Weitz, A. Gerbore, F. Herr, R. O'Donnell, V. Petrucelli. *Bottom Row*: S. Rogat, A. Majlinger, J. Lopez.

Top: I. Diamond, S. Gilman, G. Frankenstein, V. Eyerman. *Middle*: H. Wolff, O. Plotkin, I. Plotkin, N. Lee, J. Kozlowski. *Bottom*: E. Kalfaian, B. Kane.

light fixtures where our day school brethren had blithely tossed them. This also happened to be the class in which the *Pioneer* was usually distributed. S. Auerback was our representative, both a good representative and a good fellow. His cry of "I got only two left" brought laughs each and every week.

Other classes also had their non-technical and non-serious moments. In Mechanics we often strayed from the discussion of forces acting on a free body to little witticisms, most of which were contributed by Mr. Schauss, but some of which we had energy enough to utter. (We had Mechanics the next to last period on Friday night.)

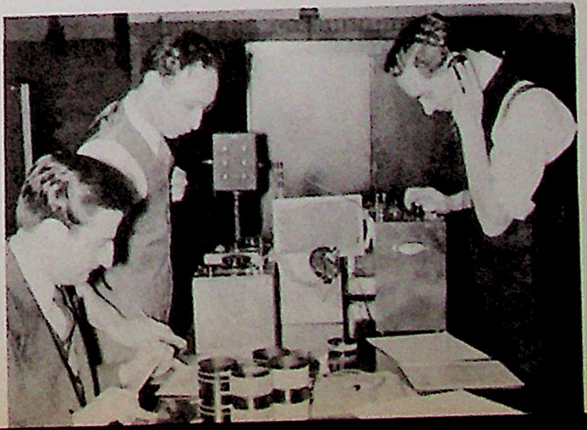
In Physics E.&M., which we had the last period on Friday, more time was spent sleeping than learning physics or having fun, but even so the majority of us managed to do plenty of the latter two. The class got quite a laugh one night when S. Bonwit had a voltmeter in a particular problem read 6.666667 volts. We were fortunate in having George Lieske in our section (who said the pride of Greenpoint?) who always seemed to be "in the groove." He, Jim Mulligan, and Ernie Lundgren had many wild rides crosstown in Ernie's "load" ("car" to the neophytes!). That car proved to be worth its weight in gold many times this year to some of the boys. Pete Kurdeka also pepped up our classes considerably, especially in his recitations at the board. It's good that the blackboards at Cooper are sturdy.



All in all, we fellows think it was a pretty good year and hope that we'll all be together for the next three years. Your chronicler only regrets that neither time nor space allowed the mentioning of all the men in the class and extends his humblest apologies to those missed. We hope that none of those mentioned will ask for these too.

When the fourth year night E.E.'s returned to Cooper after the summer vacation they thought that the rest of the course would be a breeze. Who could blame them, for they had come back after passing Tallman's E.&M. class. However when they came back, they found out that they had to take Differential Equations, Mechanics of Materials, Hydraulics, and last but not least, Tallman's E.&M. again. But this did not phase the class in the least, for they were full of hope, ambition and new resolutions. As time progressed into their courses, they discovered that it was possible to be prepared for all the classes;—some of them at a time. Then the semi-final exams came around and the boys were all terror stricken by what would happen; then when the smoke had cleared away, they discovered that a miracle had happened and they had passed.

Having passed through four years of a relatively rigorous, exacting engineering education, the fifth year E.E.'s were presented with a new and important aspect of their profession in the Direct



All of us emerged from a severe semester of Alternating Currents with Mr. Nudd, the worse for wear, but nevertheless with a grasp of the subject. Its mark on us was apparent, as witness Ed Owen and Sy Goldstein, going around after exams thinking in terms of vector dollars! Could it be their moustaches and/or the course? Instances such as this, however, helped maintain our morale, and without boasting it can be said that the class as a whole has maintained a cheerful and confident attitude in spite of the seemingly insuperable tasks imposed upon it.

Current Machine Design course as taught to them by Mr. A. J. B. Fairburn. The course forcefully brought out to the embryonic engineers the extreme import of a sense of proportion and the use of good judgment in the design of direct current machinery. It minimized the importance of obtaining results correct to the last decimal, and emphasized relative values and a common sense approach. It placed the potential engineer more in the role of an inventor, and provided him with the tools necessary for original work. As a consequence, every man obtained a better understanding of design and some of the difficulties that must be overcome.

As in other years, the amount of work appeared tremendous. Looking back now in perspective, all of us can see how we might have better proportioned our time, but proximity seems to dull our vision, and all of us just keep going on, striving to do as much as we can during the year.

Some of us stand out from the rest, gifted with certain qualities. To our mind, a perfect man would be a blend of these qualities: Ed Jehle's quick learning ability, Ed Rathje's uncanny knack in the lab., Al Skorski's interest in athletics, John Mihalik's part as a drummer in the band, Ben Levinson's nonchalant attitude, Sid Deutsch's ability to understand the most abstruse subjects, Herman Decker's positive English: "Why man, you should know better than that," Sy Goldstein's energetic actions, Lou Gordon's faculty for making original derivations, Morris Hashmall's pertinent questions in class, the way Bill Higgins and Pete Janis always manage to squeeze in in time for bowling; Ira Cohen's mastery of fundamentals, and Sam Feldman's suavity.

MECHANICAL ENGINEERING

Unlike our respected E.E. brothers, we chose what was, in our opinion, the best branch of engineering—mechanical.

The 2nd year M.E.'s got off to a flying start with the realization that they had more scheduled periods per week than any other section. Furthermore, they were left undaunted by the fact that they were taking exactly the same courses as the E.E.'s, with Surveying thrown in.

On Thursday afternoons, the southeast corner of Central Park would be visited by the plague of the 2nd year M.E.'s. On these Surveying excursions, rich and poor alike were bludgeoned

MECHANICAL ENGINEERING

Prof. Higbie C. Young

Prof. Frederick H. Miller

and speared by our flashing range poles. Mr. Ramberg would ask us to "mesher" an angle, and immediately telescopes would go wandering—and where they stopped, only the M.E.'s know.

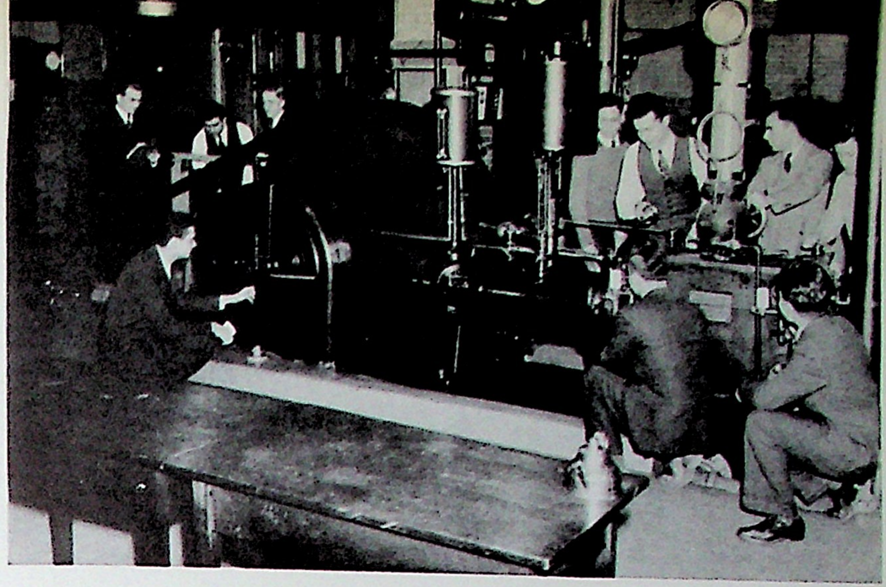
Many members of the class (principally Mr. Arnold) were instrumental in formulating "Cumberland Curios" like the following: "Acceleration is the stuff that when you're going somewhere at a uniform velocity, and you see a blonde about a half block ahead—that's it." Another "thought for the day" which appeared in one of these blackboard editions: "Life is one fool thing after another; Love is two fool things after each other."

On various occasions, Hanzaleck, Sildar, and Ceely (among others) sweated blood at the board under the stress of Professor Merritt's shearing sarcasm.

The 3rd year Day M.E.'s had the distinction of having three Schweinberg Scholarship men in their midst. Teddy Gold was one of the recipients of this coveted award; Benny Lax and Stan Manson were the other two.

The two "innocents" of the Junior M.E. class were those two rusties from Plainfield, Bob (Fuzzy) Bayuk and Arthur Swenson. Bob was Vice-President of the class and Swede was Secretary of the A.S.M.E. After Fuzzy came George Clark. George had the honor of being Junior Class President and Vice-President of the Athletic Association.

The quietest students of the class were Al Balent, the dreamer from Yonkers, and Al (Quasi) Kwasiborski who hailed from the wilds of Brooklyn. Next to Al



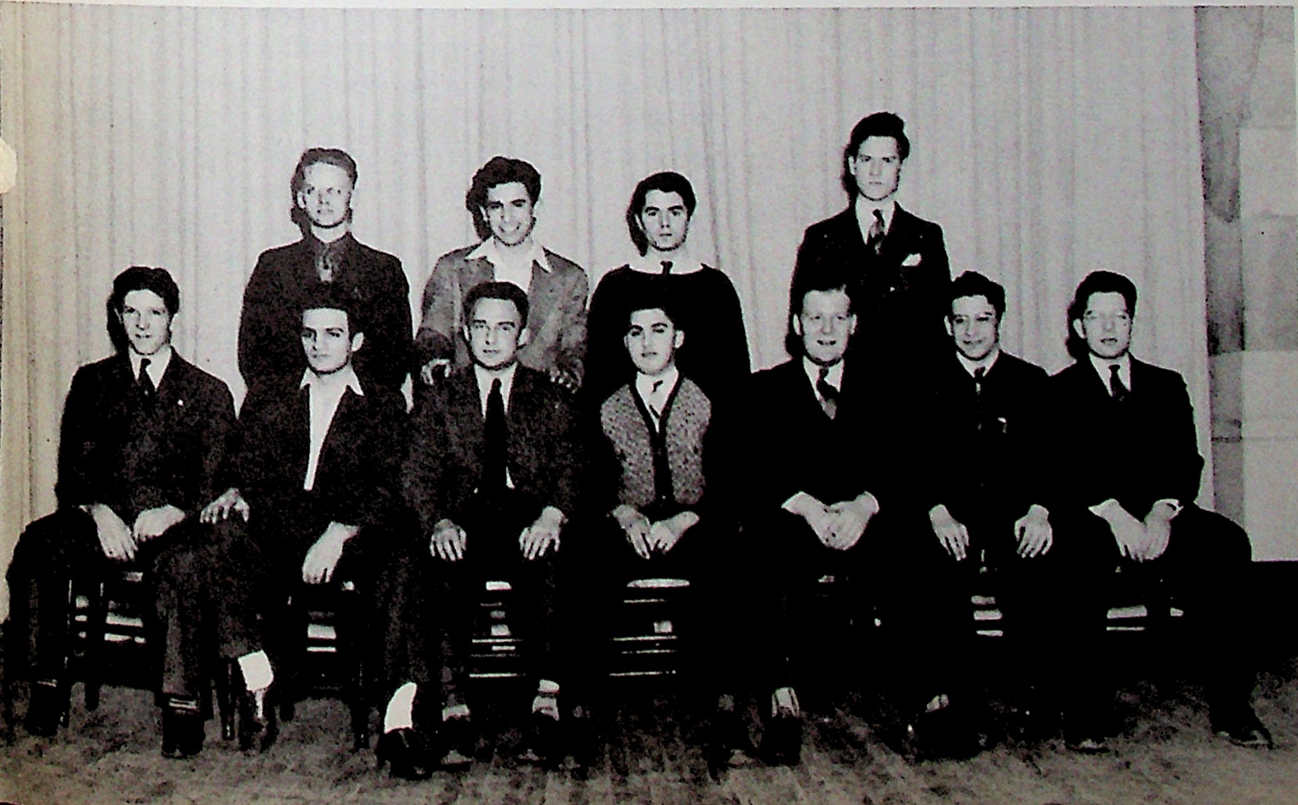
sat Joe Heiman. One of Joe's favorite names for his fellow M.E. classmates was "Goon Boy." It was rumored that this name originated when Joe first took a look at Marty Grayman, who was the Boogy Woogy of the M.E.'s.

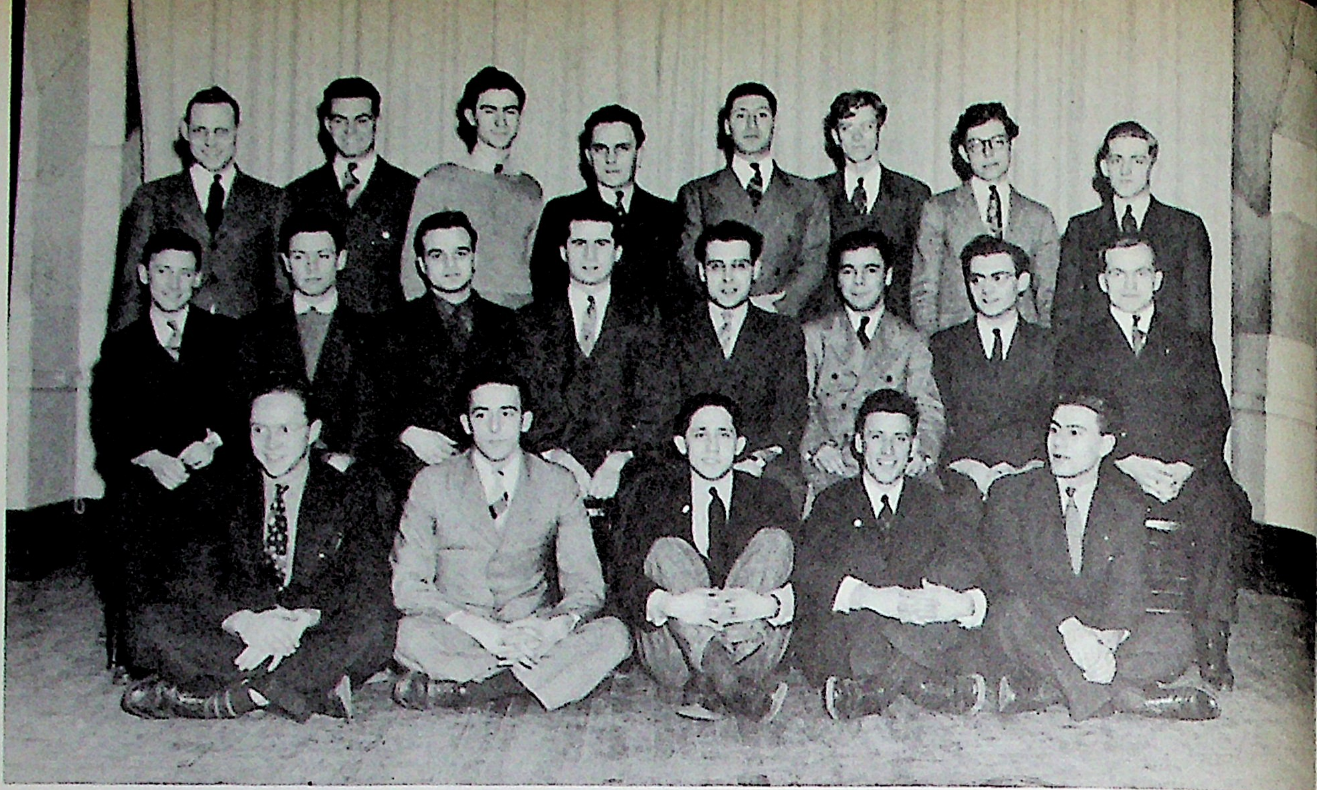
The youngest, but by no means shortest, man of the class was Emil Pansky. Although young in years, he stood up with the best of us and was well liked, not only by ourselves, but also by the instructors. Two more quiet men of the class were Arthur Holmes and Al Dunn. Arty, although quiet, knew darn good jokes if you could drag them out of him. Al was the sheik of the class and a member of the O.D.P.

Boyle's Law states, "For a perfect gas at constant temperature, an increase of pressure will cause a corresponding decrease in volume." Since the Senior Day M.E.'s are a perfect class, naturally the increased pressure of schoolwork brought about an unfortunate decrease in the class volume. But let's look at the practical side of the very super senior M.E.'s.

Joe Elovitz and John Belikowich spend most of their time doing ac-

Top Row: H. Novak, P. Kass, M. Basuk, W. Hanzalek, G. Kaye, D. Hack, B. Goldberg, M. Klein, C. Rohrs, S. Lieber, M. Sackson.





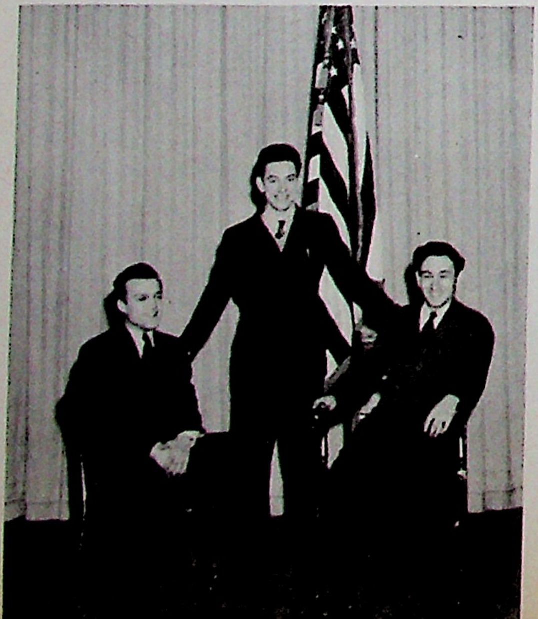
Top: A. Swenson, A. Dunn, M. Grayman. A. Balint, I. Franklin, J. Heimann, E. Pansky, H. Donnelly. *Middle*: B. Bayuk, E. Warner, B. Gordon, M. Breitman, W. Lawrence, E. Krondrajian, J. Elovitz, J. Belikowich. *First*: W. Sherwood, G. Clark, T. Gold, R. Bayuk, H. Shein.

counting homework—that is, keeping their ledger of football contests in order. As usually happens, Joe runs out of paper and J. B. runs out of relatives to whom he can credit his football entries. To prove that brains don't win contests, at the date of this writing, they have won a total of five "Grand Prizes" from the *Pioneer's* most popular feature.

Herb Schien owns a '27 Chrysler which isn't old enough to leave home. Once he coaxed it as far west as Newark with the help of three M.E.'s and one E.E. (a stowaway). On the way the car acquired its usual blowout. Changing the tire was quite a problem because the blowout occurred in the rear tire and on an incline, the car having only rear wheel brakes. Ed Kondrajian, acting as foreman, used the E.E. in his only useful capacity by tossing him out as an anchor and had the tire changed in the record time of thirty minutes. Thusly did the M.E.'s acquire practical experience.

Bob Gordon got his practical knowledge in another way. One day, in the summer of '38, Bob put on his good suit, wrapped up two sandwiches, and set out to see the world. He got as far as Mexico by the "rule of thumb" but he came back by train. (This

I. Machlin, Vice-President; M. Slutsky, Secretary; G. Fox, President.



Top Row: A. Stern, L. Kryger, L. Siegal, A. Frankel, J. Alpert, L. Brooks, W. Hampton. *Bottom Row*: A. Dorfman, S. Bindman, J. Dishuck, L. Lindquist, A. DuFlon.

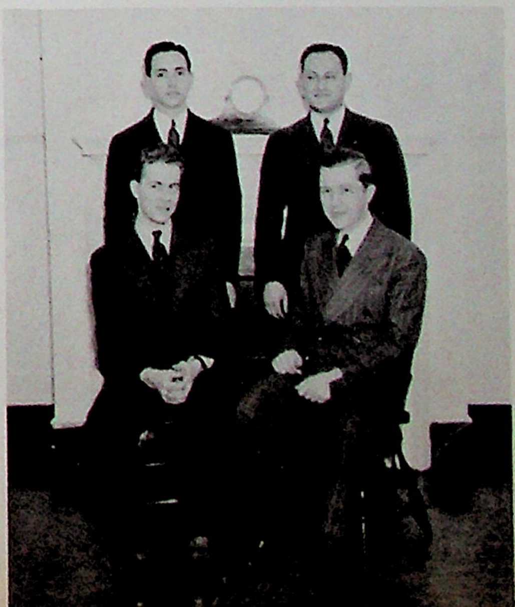
time he bought a ticket.)

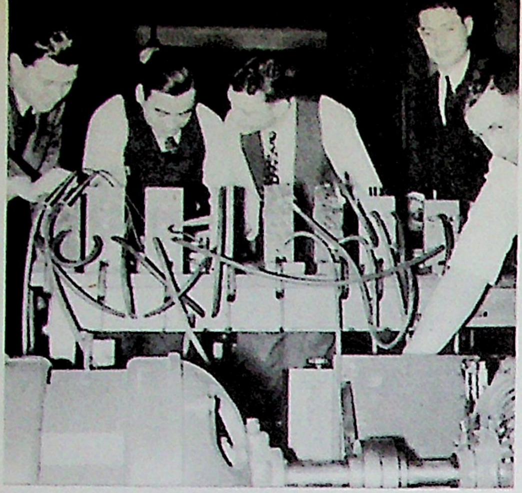
Stopping trucks is Harold Donnelly's specialty, while Bill Lawrence stops Bernie Bayuk from getting in the way of Hy Lacoff. Harold suffered only a broken arm during his experience, but Bernie was often found crawling along the ceiling of Room 105-H trying to retrieve his coat. In fact, three respectable students of Cooper (and they aren't M.E.'s) will swear they saw Bernie's footprints on the ceiling of the E.E. lab.

Last but not least (in size anyway) is Milt Breitman. Milt does alright as chairman of the A.S.M.E. but he ought to keep away from bowling alleys. When Milt bowls, the pin boy tips him! But we can't all be practical men.

So that the 3rd year Night M.E.'s will always appreciate the good times they had this year, the following memoirs and personalities which accumulated during this time are now disclosed. Balansky is credited with supplying Mr. Salma's first cough drop. Why does Berger always doze in Calculus class? Bertain says he's a married man . . . hmm. Bryson is sure to pop up with some question, anytime, anywhere. Dimm claims the most interesting people ride on his

A. DuFlon, President; L. Lindquist, Vice-President; L. Brooks, Secretary; A. Dorfman, Treasurer.





train going to business . . . a woman no doubt. Doyle . . . one person who actually does homework, remarkable! Fischer will be glad to supply any information on coal. Eberhard represents his section in sports as captain of the Fencing Team. Frei speaks rarely, but then everybody listens. Farley's theme . . . "Three O'Clock in the Morning." Does Jacobson use a hypodermic on his car? Kalajin, — busy as a bee. Kushins are very soft, but not this one. Misson has a positively delightful way of enunciating. Konigsburg wass-a-matta? Tired of livin'? Bleecher's a card,—the joker. Steiniger . . . "Prove it!" Watrous will always have a crack ready. If you don't know how to do it, ask McCarthy.

The 4th. year Night M.E.'s returned to Cooper Union in an extremely pleasant mood since we had no laboratory fees to pay (and hence the Activity Plan Fee was not strenuously objected to) and the installation of the new fountain outside the drawing rooms made it no longer necessary for the would-be drinker to possess the power of producing vacua with the lungs.

This year was the first without a course in mathematics and the first with such an affluence of engineering subjects, namely, Thermodynamics, Mechanics of Materials, Machine Design, and Hydraulics. Eagerly we awaited our first meeting with the other groups in Mr. Jeffery's Elements of Contracts and Principles of Negotiable Instruments courses, Mr. Jeffery being known to us from

Top: J. Weipert, H. Anderson, J. Middleton, L. Balk. *Middle*: E. Michaels, P. Hagerty, M. Schwartz, S. Guzzardi, L. Strauss, B. Winer, R. Rankel. *First*: I. Goldman, J. Marchetti, M. Kaplan, R. Maccari, R. Brushansky.

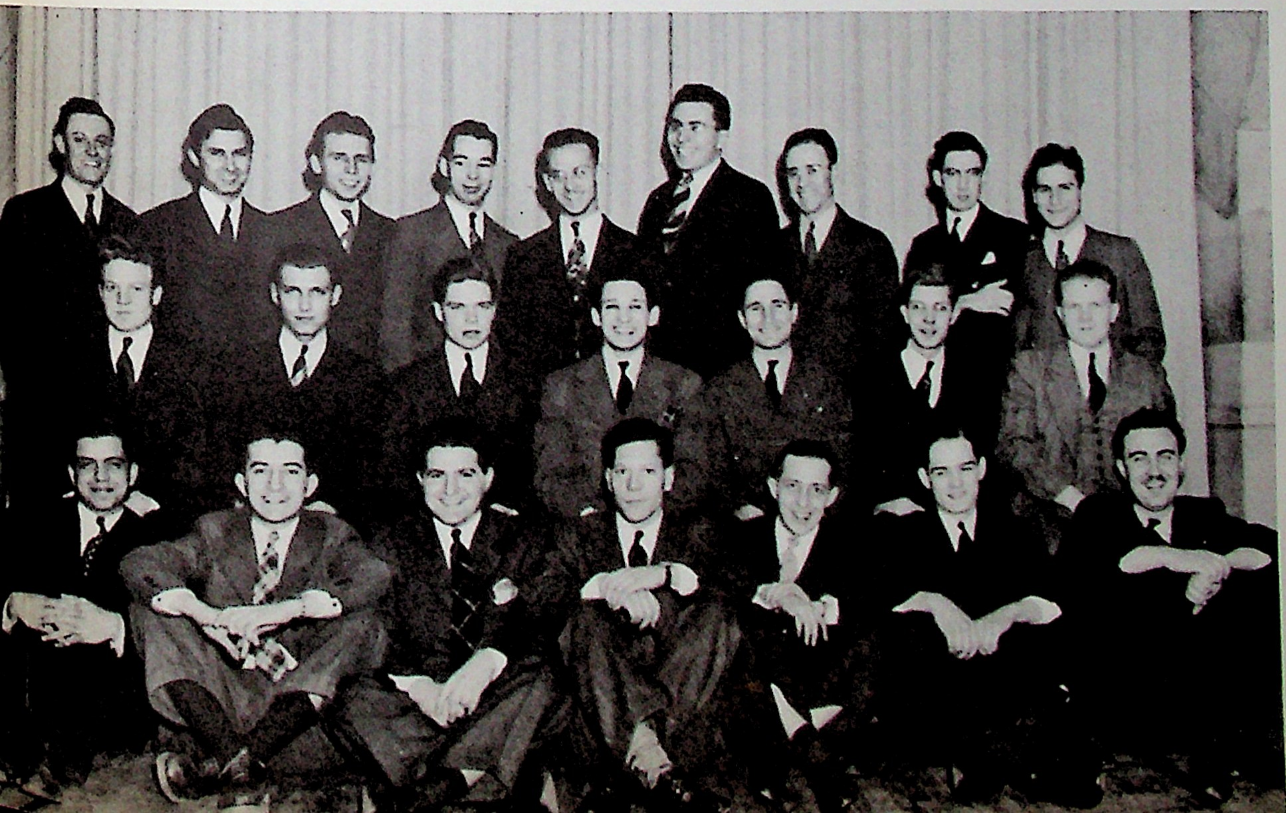
last year as an excellent instructor, ere long as a brother stag and nimble-fingered pianist. In hopes of being interrogated with regard to a certain definition of one Justice B., we were not disappointed.

"I didn't get that Mr. Puller, is the plate due at the end of the period or at the beginning of the next?" Then there's the lad who wanted permission to add another column of calculations on a second sheet of drawing paper. If we require cooling while doing homework, none of the M.E.'s will open the refrigerator door to accomplish this. After drawing shear and bending moment diagrams for Mr. O'Donnell (the other one) the class saw that our crane, created in the Machine Design course, was capable of lifting sleeping Max from his recumbent pose to a position from which he could toy with the samples of roller and ball bearings which "should not be rolled on the floor, men!"

The A.S.M.E. student branch dinner and the Stag Party were the main social events of the year. Both were complete successes. These gatherings go far in promoting spirit in the class. The student branch held meetings every other week, guest speakers alternating with student speakers. On various weekends, inspection trips were made to plants in the metropolitan area.

At the close of our day and the beginning of our school "day" we are much more eager to get at the steam tables of a cafeteria than those of the thermo courses.

Top Row: B. Radzka, L. Picone, R. Woessner, D. Miller, I. Taback, W. Dimm, E. Fischer, J. Doyle, W. Stephens. *Middle Row*: G. Sedat, J. Grossman, W. Eberhard, A. Balansky, R. Bleecher, H. Niedhammer, M. Mittenhuber. *Bottom Row*: L. Coppolino, J. Shapiro, C. Lasky, E. Lucken, F. Roth, C. Mistron, A. Laufer.



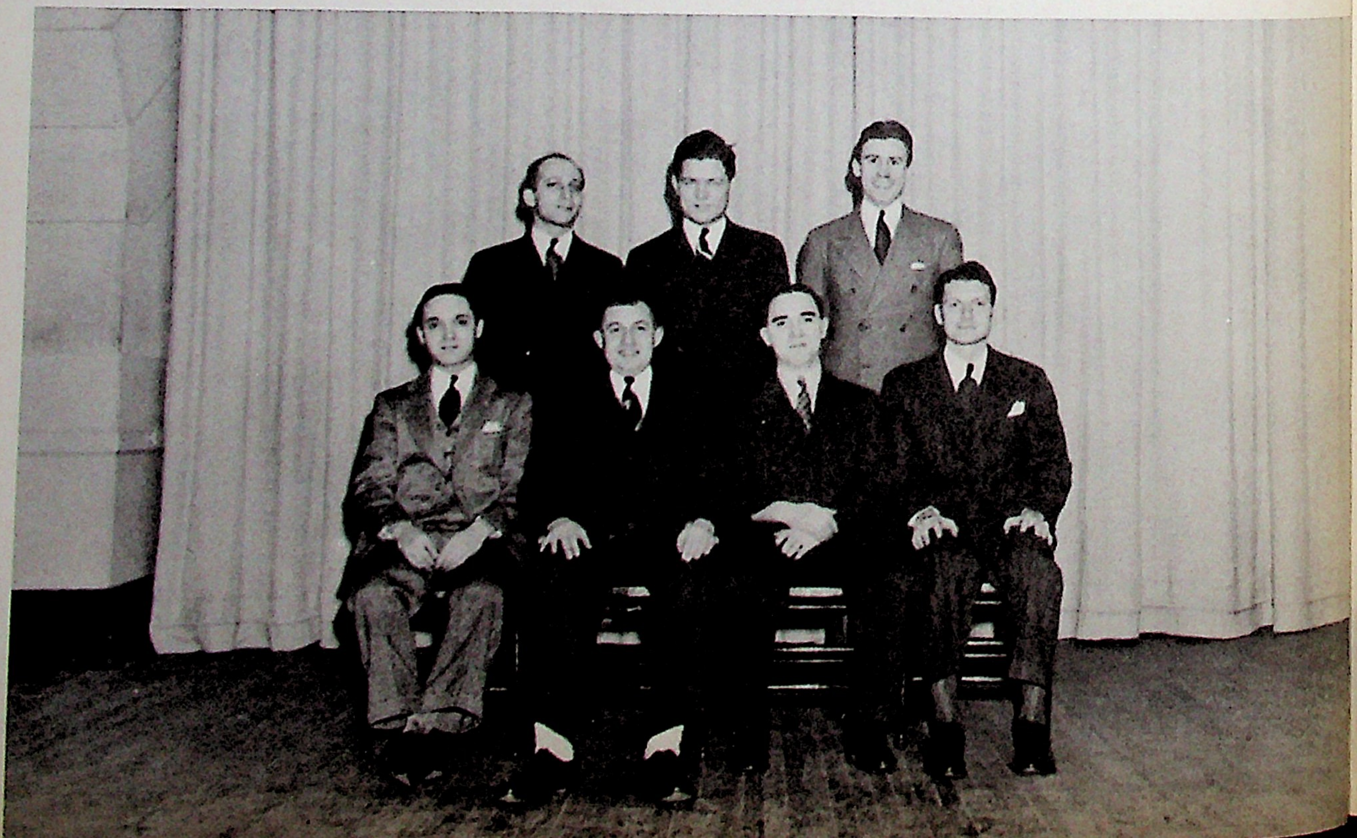
The Night Mechanical Engineers of the class of '41 returned to school as hardened campaigners without exact knowledge of what we were facing but having at least a good intuitive knowledge of what it would be. After the general reunion of registration night, with its attendant long stories of summer achievements, and after getting acquainted with the new instructors and renewing friendships (ahem) with our old ones, we settled down to the almost completely automatic existence of the typical Cooper man.

The work of this year seemed more integrated and more intensive in our own engineering field as compared to that of other years when the work was done under several different departments. As a result, we have been able to see the planning and coordination that has gone into the making of our scholastic careers.

The Mechanical Engineering Laboratory and Advanced Heat Power under Professor Roemmele were the most important and for some, the most interesting subjects. Others were more interested in Engineering Economics given by the long-suffering Mr. Lofgren. He has been attempting to teach this same subject for two years running and must be about ready to give up.

In connection with the election of class officers, the M.E.'s feel quite proud. At the regular elections the previous spring, three of their number were elected as officers. Then last autumn Alton Duflon was twice elected as class president. Thus, for the first time in the history of the school, the class officers have all come from one school. The other members of this illustrious group are Larry Lindquist, Abe Dorfman and Lou Brooks.

Top Row: R. Brushansky, L. Strauss, R. Rankel. *Bottom Row*: J. Marchetti, I. Goldman, M. Kaplan, S. Guzzardi.



meet a CIVIL engineer

With the pre-engineering course completed, my colleagues and I were faced with the problem of deciding what course to pursue. A small but powerful minority chose Civil Engineering.

After spending the summer in various ways, we Cooper Union students assembled for the Registration day exercises. A diligent search among the mob in the Physics lecture room finally enabled the members of the second year C.E. class to locate one another. At the beginning of this semester our group was uncertain whether to be joyous or morose because there were only five students in the section (that meant that all would get more individual instruction, but for those who fell behind in assignments there was no escape).

To introduce the luminaries of the class we have . . . Harold Levenson, brain of the section, who invariably had his calculus homework assignments done a week in advance. . . . Harold Marks, the little man who wasn't there whenever there were surveying field notes to be taken. . . . Louis Thaisz, the feller all the girls in the Art school gazed at— or was it vice versa? . . . Joseph Ungerer, terpsichorean master and pool shark . . . and last but not least nor least

CIVIL ENGINEERING

Prof. Edward S. Sheiry

Prof. C. R. Brumfield

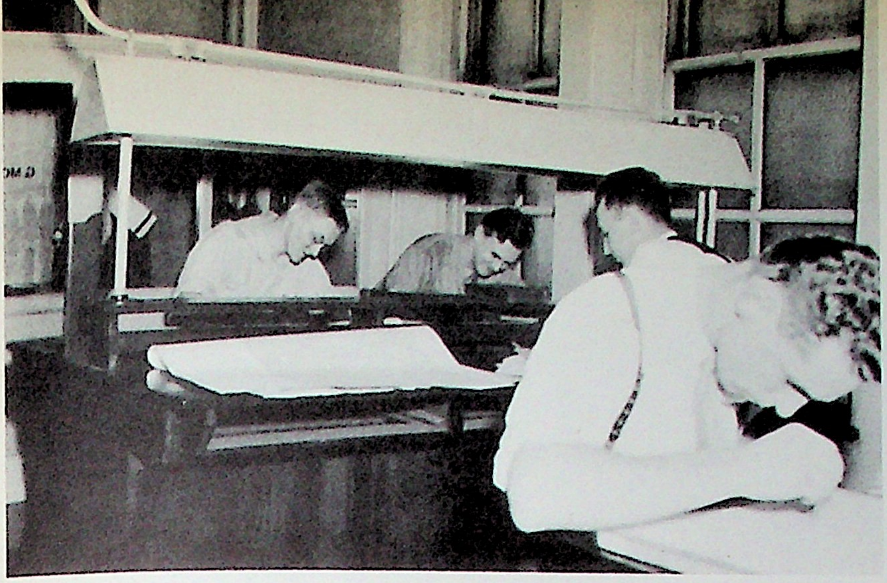
Prof. C. Roth.

Prof. MacDonald

in stature, John Walsh, who apparently spent most of his time hanging around the Chess Club.

Surveying, which was carried out in the wilds of Central Park, was a course that everyone enjoyed. This was true because it was the most professional of course and also because it provided the class with afternoon outings in Central Park. After a few weeks the students discovered the many purposes for which a telescope can be used in Central Park; looking into windows, reading a paper over a person's shoulder at a distance of fifty feet, inspection of members of the fairer sex; and at times for the measurement of angles.

In a way, this year's was a pioneer class since it was the first Tech class to enter the Art school for a freehand sketching course. There were a few things that could not be understood about the Art school, such as: Why did the number of engineering students coming to inspect the C.E.'s masterpieces decrease so drastically soon after the doors of the adjoining life class were closed? Also why are the partitions around said class 8′ 3¼″ high when the tallest person in our group is only 6′ 1″?



In the summer of 1939 the C.E. class of 1941, together with some night school men, was lucky enough to go to the University of Marine Surveying Camp in the foothills of the White Mountains, near Gilead, Maine. We had six weeks of experience of living in tents, miles from any town.

In September, when school began, the well known "four horsemen" of the year before were augmented by as many irregulars.

The curriculum had been completely revised and we found ourselves facing a schedule tougher than the first two years. The new city planning course caused much complaint since it took six times as many hours to prepare for (if one prepared for it) as the catalog called for. "Brother" Wintoniak, the star in that subject, incurred the envy of all of us by having his drawings always done on time.

Our class, small as it is, is well represented in school activities, although a hard schedule prevents us from doing more. The gentleman from the hills of Yonkers, Paul Bobay, is secretary of the Camera Club. Irving Scheinbart has been on the basketball team for two years. Irv has the most amazing faculty of getting by with the least amount of work. Ed Serveson is the traveler of our clique. Ed estimates he has travelled over 56,000 miles coming to and from school. C. E. Schaffner, who is president of the Athletic Association, has been a star performer on the basketball team for several years. And then there is Sidney Weniger, who is president of the Rifle Club. Sid also is secretary of the student chapter of the A.S.C.E.

The most unique aspect of the graduating C.E. class is its size. Not for half a decade has Cooper Union graduated such a multitude of robust Civil Engineers. Perhaps it was one of those occasional quirks of nature, or perhaps just a flash of intuition which prompted fifteen freshmen to sign up in the ranks of the "hairy-eared" engineers. In numbers we ranked second only to the Chemical Engineering horde; but, as Confucius says, "Quantity does not always assure quality."

S. Rabinowitz, President; M. Schwartz, Vice-President; J. Kozlowski, Secretary.

The third year night Civil Engineering Class is a select group, about fifteen in number. Its members have a strong feeling of wanderlust, having thus far made a trip to Central Park and a long journey through distant Jersey.

The object of the Central Park trip was to carry out a bit of practical work in leveling. However, the telescopes on the levels also saw service in surveying the fair damsels who chose that afternoon to go strolling in the park. And there was the dog that mistook a leveling rod for a tree. And one must not forget the complete collapse of the instrument in the hands of Chletsos.

In Jersey the class went on a geologic expedition which took them as far as Paterson. Near Palisades there were two young lads who offered their assistance and knowledge by jumping up and down, shouting, "See, this is a rock." Iarussi got himself into the strangest places in search of camera angles while others appeared engrossed in the study of rocks.

When either Visentin or Gross is called on for anything, the other one always exhibits the greatest glee and merriment. Upton and Erlemann can be depended upon to offer some spontaneous comment on any subject whatsoever. In surveying class, Professor Roth enjoys making sly remarks to Di Petto, Navoruck, and Smith. Sjogren consented to serve as scribe under great pressure from a member of the CABLE staff.

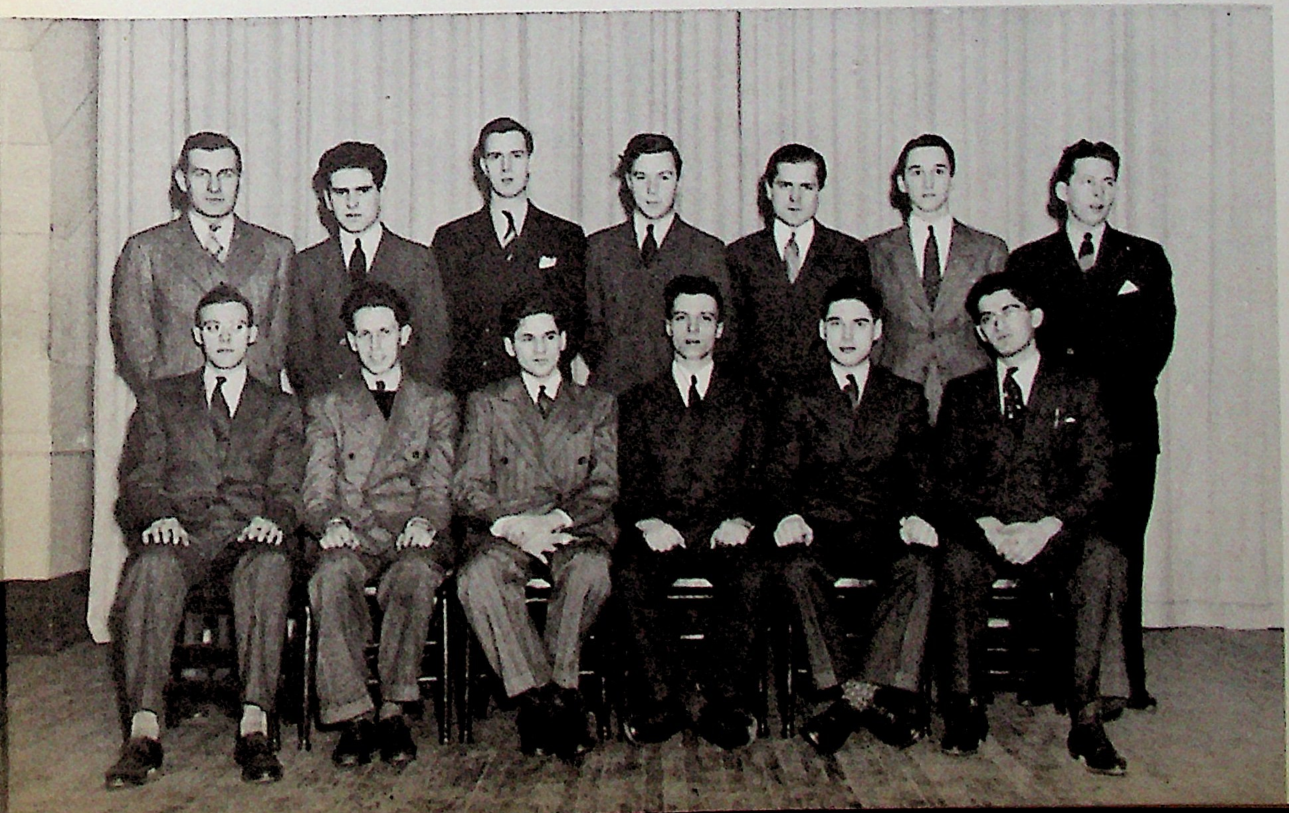
Top Row: J. Fegan, C. Schaffner, S. Wintoniak, I. Guralnick, S. Pavelka, J. Walsh, F. Pohle, W. Stone, A. Glaser, E. Caligiuri, L. Thaisz, D. Silverstone, R. Medaisky, H. Marks, H. Linsky, G. Fox, J. Belikowich. *Bottom Row*: J. Hanft, H. Kaufman, J. Skiba, S. Weitz, M. Falkin, S. Weniger, I. Scheinbart, W. Koroshetz, M. Strauss.

The Fourth Year Night Civil Engineers started this year anticipating lots of work and were not disappointed. Summer Surveying Camp had served to bring part of the class closer together, making possible the cooperation necessary for Hydraulics and Materials Testing Laboratory. Who can forget Dulberg's heartily shouted instructions to Scheiner, Malchensen, and McCracken, above the roar of rushing water?

Professor Roth's Advanced Surveying kept everyone busy with Astronomy and contour problems, and Shiffman's doubt as to the existence of January 0, 1940, heightened the interest. It is still wondered whether the one-minute naps of Chernoff, Shillito and Olson should have been measured in Sidereal or Mean Solar time.

This is the fifth chapter in the Night Engineering Class of 1941. In the four years since their first registration their numbers have dwindled greatly. In fact they are quite generally known as the vanishing Americans. They watched, amazed, Mr. Williams' dazzling mathematical pyrotechnics all through Hydraulics and Sanitation, in addition to being the recipients of Professor Sherry's course on Reinforced Concrete. As if to show that it doesn't take many men to comprise a class, this one has only five members: Bob Mulligan, Charlie Pinto, Bob Schumacher, Hyman Sigman and Charles Reck.

Top Row: P. Kurdeka, H. Zall, J. Mulligan, J. Coughlin, J. Zaleski, G. Lieski, B. Lewis. *Bottom Row*: H. Messerschmitt, W. Fitzpatrick, S. Bonwit, A. Aymar, W. Thompson, D. Young.



this is an

ARTIST

The portals of Cooper Union were opened, as is the custom, on October second and life began for seventy-three Freshmen. In spite of extra stumbling blocks in the entrance exams, two students triumphed with marks higher than those averaged in years of lighter labors. In fact, Irving Luckman's 79 was the highest grade in five years.

The suddenly timid and unsophisticated heroes of the fray were duly herded into two sections, and exposed to the mysteries of Decorative Design, Architecture, Painting, Lettering and Plastics. All was

Esmond Shaw

Byron Thomas

a grade A London fog for the first few weeks, but we're proof of the theory that you can get used to anything. The old stuff that got us into this here school of esthetes came to the fore, and we're doing nicely, thank you.

Not to break with tradition, we chose in the approved fashion, Murray Spitzer as our own little Frank Roosevelt; Barbara Good as vice-president; Helen Vallado, secretary; and Everett Larson, keeper-of-the-dough.

Clubs and activities, especially those jam sessions sponsored by the society "Pour la danse," have become very densely populated since October, 1939. Hmm, freshman girls DO attract the male of the species. And while the Drama Club's "Air Raid" didn't make the NEWS with four stars, there was plenty of audience when Virginia Jackson and Shirley Sherker did their stuff. Our big splurge, however, was the "Grab yourself a man and come on up" party. We're referring to that Sadie Hawkins shindig for which we modestly unpack an orchid for ourselves. The Mad Genius Ball was the proving-ground for this extravaganza; its difficulties were our experience and, if we do say so ourselves, we did things up brown. Anyway, a swell time was had by all.

Our first year at Cooper has been a year rich in experiences, not the least of these being the awakening to the realization that "Art sure is the stuff," and we look ahead with new resolutions and crossed fingers.

The new semester revealed last year's timid Freshman in a new guise, that of the self possessed Sophomore. The Sophomore's great superiority over Freshmen, Juniors and Seniors is discerned with amazing rapidity, even to the unpracticed eye. They rant extravagantly and guffaw in the most knowing fashion till it would seem to the poor Freshie that the only respectable ambition in life is to reach the status of a Sophomore.

Top Row: Harold Henriques, President; Walter Shultz, Treasurer; Everett Larson; Clifford Schmidt, Vice-President; *Bottom Row*: Helen Vallado; Barbara Good, President; Mildred Davis, Secretary.

Who is the morose, slothful being, glassy-eyed and idle behind a great expanse of drawing pad? He seems to be laboring under a terrific strain. Some Hindu Philosopher, perhaps, compiling a volume on the sacred practices of Buddhism, some burning scientist evolving a new formula. Aw nuts! It's just our learned friend of yesterday trying to get an idea in Decorative Design. His returning from distant wanderings in esthetic places coincides strangely with the ringing of the recess bell, at which time he sheds his unwanted cloak, his brooding attitude, and becomes a carefree child of nature again.

This depiction of a Sophomore is slightly exaggerated. You have only to scan the actual group to realize the second year day class is in earnest about their studies. Take William Chin for example. Besides his studies at C. U., Chin takes a course in Pattern-Making and now and then does scenic designing. Talking of talent, this prodigy from Arizona, must be mentioned. His guileless manner is almost incongruous contrasted with the slick quality of his work. There is Bill Lipshitz whom no man can quiet, but Bill does not babble nonsense. He is probably the best read student in the Soph class.

Top: H. Burt, W. Gardner, B. Blank, M. Warshaw, D. Brockhuizen, E. Larson, J. Ross, I. Luckman. *Third*: S. Levine, D. Marootian, C. Romano, H. Vallado, B. Good, R. Friedberg, V. Jackson, J. Jackson, D. Smith, G. Campbell, V. Collista, G. Jackson, M. Bileck. *Second*: P. Knight, B. Neuman, B. Backman, A. Gartner, S. Sherker, D. Seclow, L. Michel, G. Marback, M. Meyers. *Bottom*: F. Greco, P. Marcus, P. Pickow, T. Fitzsimmons, S. Willig, A. Deshais, B. Berg.

H. Oliver, Treasurer; J. Dagit, Secretary; E. Jastram, Vice-President.

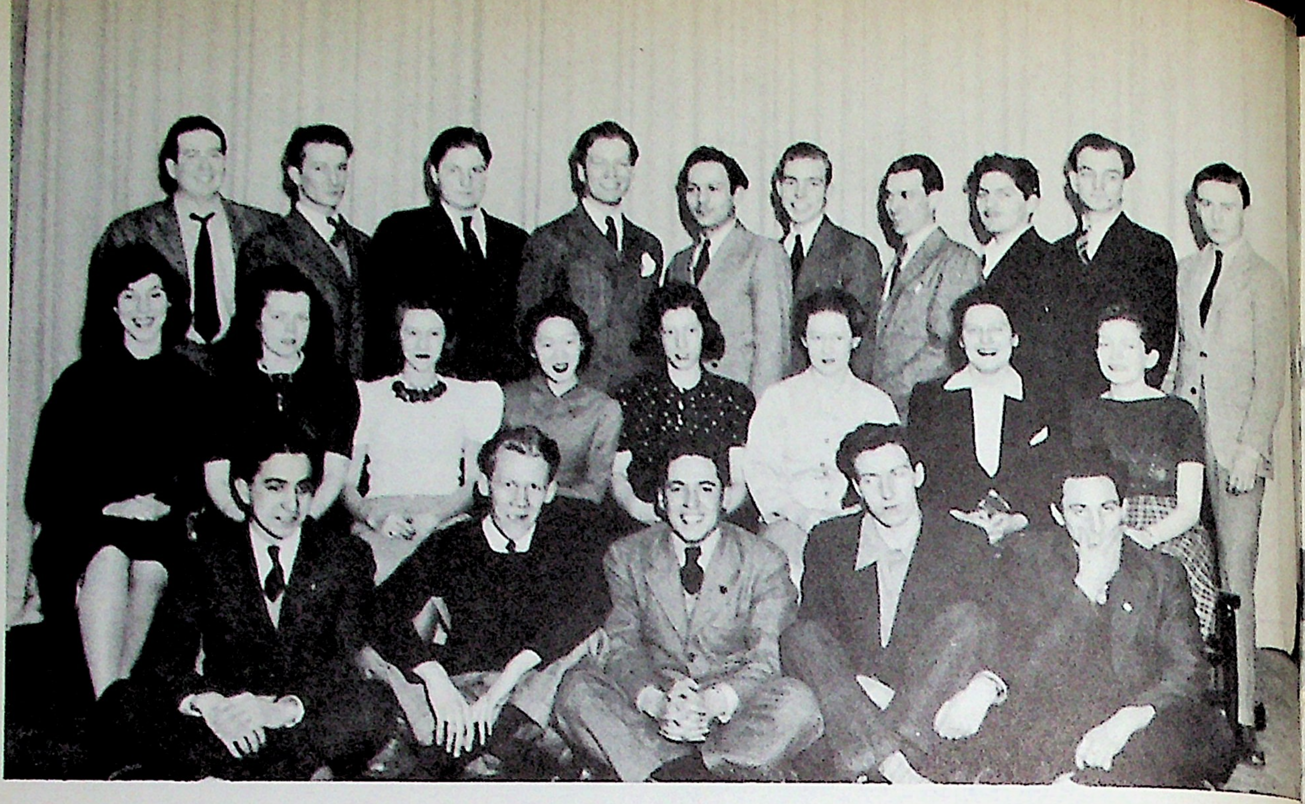
What about the girls? Their talents are more applied than those of the boys. Many of them design and make all their costumes. Jeanne Dagit is a notable example of this facility. Over the week-end she'll produce a "rag" to gladden the eye of any debutante. In the way of ornament, several of the girls have created from seeds and peach pits, some most intriguing pieces of jewelry.

There is the Sophomore Class, plotting and playing, but enjoying it all. We are a little older, and a lot wiser--we've learned how much more there is yet to know, and we're looking ahead, not with the bubbling exuberance of the dilettante, but with the calm assurance of the serious student.

Keep your seats now, folks, don't leave, Mammoth Jack Pot tonight after the Upper Class Show. Stay and share the wealth! Maybe you will be the lucky possessor of the handsome gold-embossed facsimile of a dollar bill. . . .

The curtain closes on the last act as the whole troupe comes out for a bow. Embellished by such worthy performers as Carl "Sweden" Petersen, famous for architectural angles, and Jeannie "Genius" Wong, with Clint McCaulay and George Hill slapping each other's thighs over a few of their old

Top: E. Casarella, C. Wisoff, C. Mazzamuto, L. Miller, V. Shapiro, E. Sappah, L. Quattrochi, G. de Bathe, I. Nyski, F. Devine, J. Simonyi, J. Dagit, F. Jacoby, H. Oliver. *Second*: B. Rosenberg, B. Alden, P. Goldstein, A. Mendelsohn, L. Stein, R. Van Dyke, M. Opacity. *First*: E. Natel, L. Artale, N. Gallina, J. Hunt, E. Jastram, J. Priest, H. Ackerman.

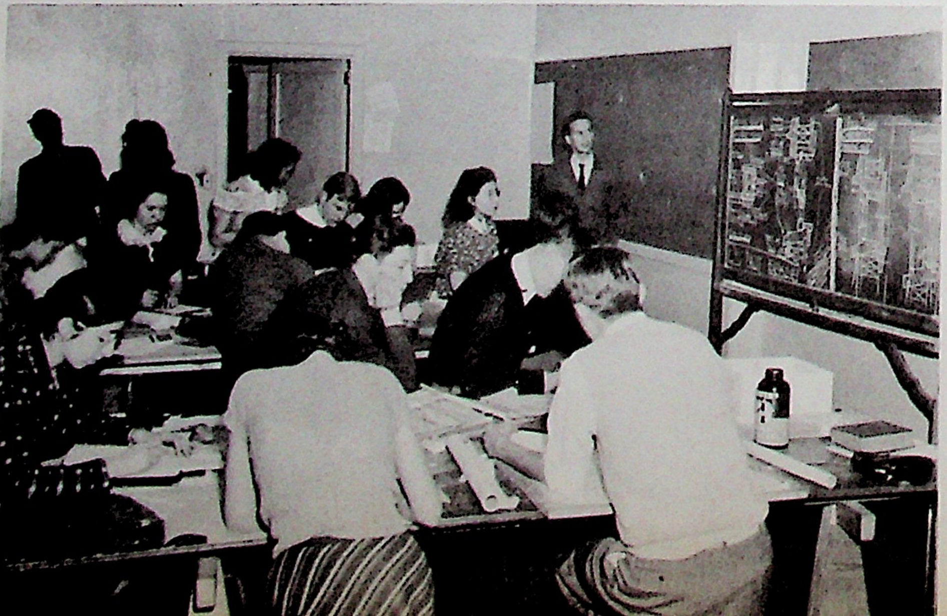


Top: A. Ehrlich, A. Lascalzo, P. Lubeil, B. Grushkin, S. Weiner, J. Scherer, R. Metz, D. Shapiro, S. Gordin, J. Brice. *Middle*: M. Hellman, H. Kempson, H. Grot, J. Wong, L. Czapek, D. Bott, D. Rubenfeld, N. Zimmer. *First*: B. Simpson, C. Peterson, A. Ross, C. Macaulay, H. Collins.

jokes before they finally get into place. On that end we have "Chubby" Lubell holding down "Gil" Levy and a loose board while Bob and Zana hold hands under cover of Moe Gerlend, who was opportunely rescued from the wings where he was regaling the other performers with his famous impersonation of "Jamaica Inn." The whole company joins hands and shuffles off to the tune of "Oh dear old Cooper, it is thee we love." At this point that venerable old Shakespearean trouper, Adolf, announces in his well-known sonorous tones "Thatch all." . . .

To whom it may concern; the above individuals were reengaged as of last year at the same rates, to appear at Ye Olde Opry House, located at 4th Avenue and 7th Street, the opening day being October 7th and shall run until or about May 20th.

Due to the elevation in position from sophomoric juveniles to licensed dispersers of the Drahma for the year 1939-40, the players have become rather less united. In other words the old class ain't what it used to be.



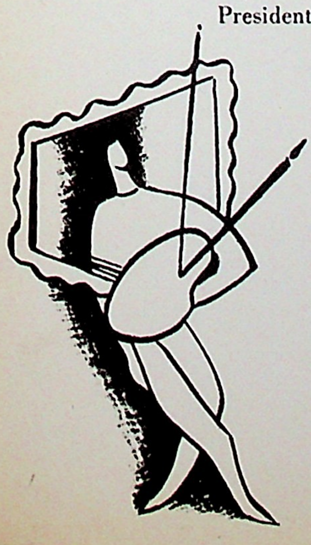
Top: A. Schiappa, A. Smith, J. Orgel, H. Christie, M. Tanzer, S. Sack, M. Abler, M. Gerland, M. Naidich. *Middle*: M. Mercer, L. Stein, R. Cohen, M. Cooper, A. Bloom, M. Rudat, B. Cohen. *First*: I. Sabo, A. Eisemann, S. Block.

Gone are the days when Hal, always obliging with his trick falls, lost himself in love of art to the extent that he failed to see the Director enter in on the scene of energetic self-expression. Now he'll only do it during business hours. Gone, too, are the days of impromptu imitations of the Ritz Brothers, and ingenious and diverting applications of the "hot-foot"! Now we have abandoned much of the slapstick comedy and think rather of the weightier side of LaVie. In upholding this view we submit the fact that one of our feminine Architecture members, Natalie Zimmer, who has brains underneath what gentlemen prefer, won second prize in the Sachs contest. Our old standby when it comes to excellent performance, Carl Peterson, won first prize while that young ingenue, Bob Metz, won third.

The Costume Department numbers among its ladies of thimble and thread, Amelia Blaziewski, Helen Bott, and Shirley Zweifach. Amelia is a daily eye gladdener with her always interesting and charming ideas. Among the egg and circle creaters in the Graphic Design Troupe are Andy Ross, Clint McCaulay, and Doris Rubenfeld.

The Industrial Design Troupe, though small, is ably assisted by that recognized treader of boards, Jay Brice. Mr. Brice finds this type of vehicle an effective outlet for his particular talents.

Top: C. Macaulay, Vice-President; S. Gordon, President; J. Wong, Secretary; J. Brice.



Top Row: Edward Krause, President; John Ruddley, Vice-President; Harry Gitten, Secretary. *Bottom Row*: Julius Bronstein, President; Ottilie Nalbach, Vice-President; Robert Ullrich, Secretary-Treasurer.

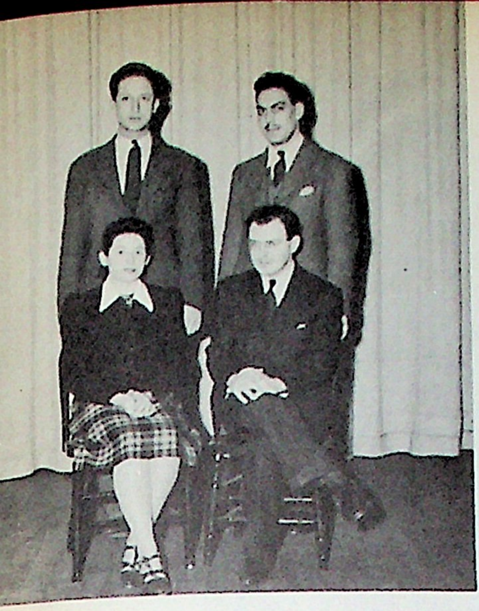
In closing the successful season we wish to give credit for able management to our instructors and to state that there will be positively no refunds at the box office.

Don't go yet, folks, just keep your seats, 'cause you haven't heard from the night school yet. Far be it from us to remain silent, especially when this year we have been so active in extra-curricular activities.

Classes, which last three long hours, are broken up by a fifteen minute rest period every night at 8:30. As the bell rings for recess, brushes are cleaned, papers and easels put aside, and chairs moved for a quicker exit. Down the halls we stream for fifteen minutes of gossip. Every fellow that has a pipe or cigarette lights it and says, "Well, let's have the dirt from over the week-end." When you hear this, folks, get out your rubber shoes and shovels! (A life boat might come in handy, because if you can't swim out at the end of fifteen minutes you'll float out.) Don't think the girls are any exception! They can do their share. (I don't know whether or not Leap Year has anything to do with it, but oh boy!) The bell rings in a shrill tone—one of our instructors takes delight in keeping her finger on the button—and classes are again resumed until ten o'clock.

And now to introduce some of our illustrious night art students. On a Friday night in the Pio-

Top Row: M. Davis, S. Hausner, E. Kline, G. Warrington, E. Goldman, M. Sintal, A. Spitler, P. Piech, M. Holzsager, D. Flam, H. Teitelbaum, W. Lodge, S. Kupfershmid, A. Greenbaum, H. Henriques. *Middle Row*: S. Ehernbrug, M. Gansberg, H. Eberdink, L. Conway, M. Spence, F. Gelles, R. Long, E. Bagnasco, E. Saipher. *Bottom Row*: P. Bleier, A. Morici, A. Kramberg, M. Orr, M. Slotkin, M. Addis, J. Gonzalis.



Standing: Murray Naidich, Treasurer; Morton Abler, Secretary. *Seated*: Ruth Cohen, Vice-President; Alvord Eismann, President.

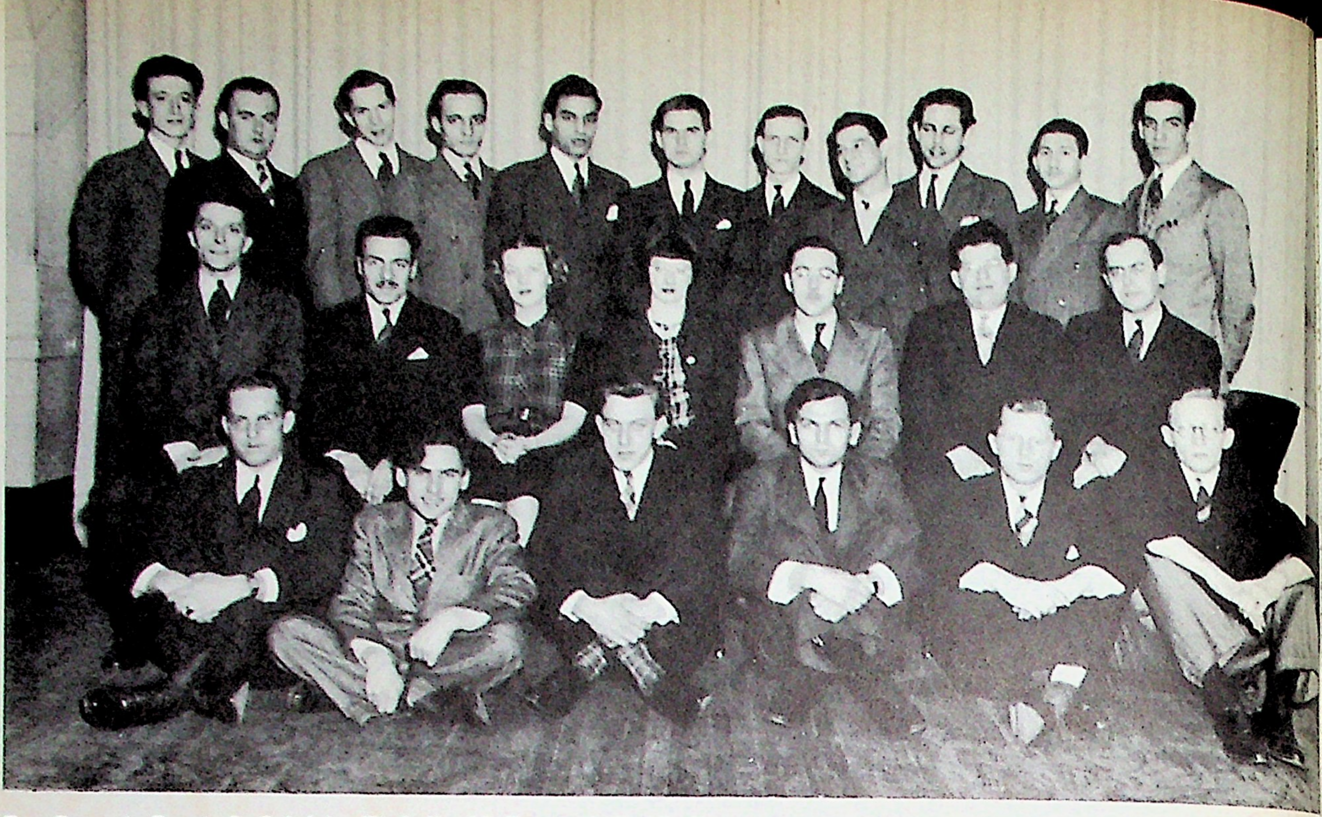
neer office one is bound to encounter a group of Freshmen. While Mildred Gansberg, of "Behind the Canvas" fame is busily typing out her column, Meyer Slotkin is usually in the CABLE office trying to borrow anything from a rubber band to a drawing board. If you happen to catch the end of a good "Confucious Say" joke, Mel Holzsager can be spotted telling it to some cute little trick—any one will do.

Not to be outdone by mere Freshmen the third year class is also well represented in the activities of dear old C.U. In evidence at all Student Council meetings, lending his distinguished personality in the capacity of secretary, is Julius Bronstein, also president of his class.

The success of the Annual Dance was due largely to the tireless efforts of Edwin Schaffer, who, with his committee, planned the smooth running affair. Our champ bowler, Bob Ullrich, was instrumental in organizing the Bowling Team besides serving as Secretary-Treasurer of his class, for which they are duly grateful. Another bowling enthusiast is Ernie Costa, the little man who isn't there when he's cutting class.

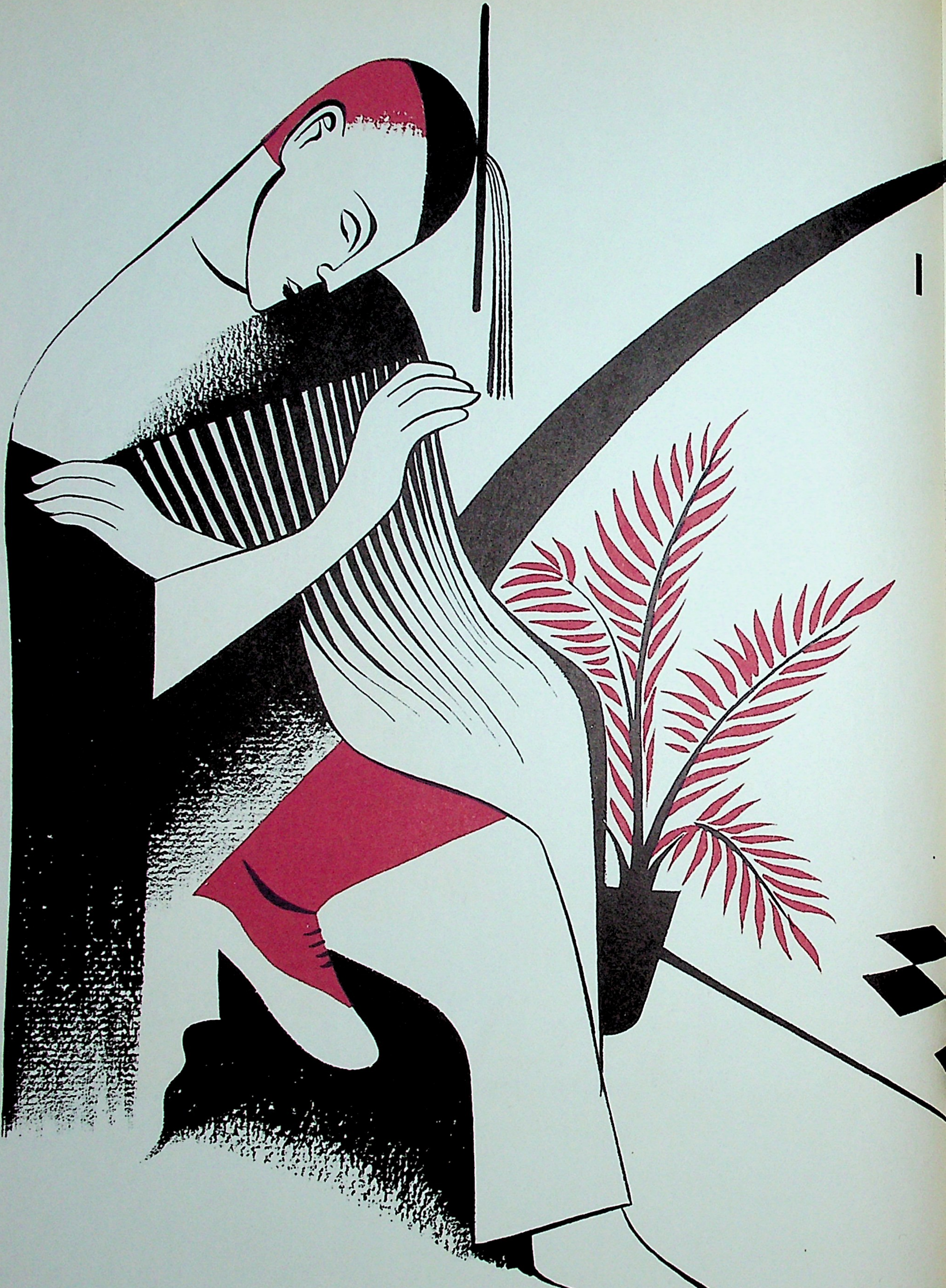
As the year draws to a close, those of us who are graduating look forward expectantly to the future, hoping that it will be as rich in experiences as were the four years spent in Cooper Union.

Top Row: A. Simone, E. Hubert, C. Pugh, W. Conway, H. Halliday, J. Jakiun, B. Atamian, E. Latz, D. Rutland, A. Otto, J. Metzger, T. Meyer, A. LaSala, Z. Kiss.



Top Row: A. Bruni, C. Gehrlein, W. Lally, M. Rogin, E. Wolff, F. Linder, W. Henes, M. Greenberg, L. Gutovitz, D. Wasserman, I. D'Angelo. *Middle Row*: J. Ruddley, J. Bernardo, O. Nalbach, H. Poppe, B. Goldstein, H. Gitten, M. Miller. *Bottom Row*: M. Holesek, J. Bronstein, R. Ullrich, E. Krause, D. Balter, F. Heine.

GRADUATES



AM NOW A SENIOR

The hours that I have spent preparing my school work, depriving myself of some of my leisure time, were not in vain. At long last I am graduating. Though this thought gladdens me, I am saddened by the thought of leaving those who have succeeded with me. As a once popular song title states, "We Came a Long Way Together." It is a shame that we must part, but our acquaintances are renewed every time we scan the next few pages.

GRADUATES' FAREWELL

To use that time mellowed and tried and true opening sentence —Just four years ago you entered the hallowed halls of Cooper Union, young and hopeful, ready to slay 'em all (or words to that effect). You struggled and fought to the top, and now you're being graduated, successfully experiencing your ambitions. Maybe this doesn't apply—perhaps you entered more than four years ago, and maybe you were green and scared and disillusioned after your first few weeks in these here halls of learning. Thrust, fresh from high school, into the turbulent stream of Cooper Union life is in truth an experience. Few of you found it not unusual and different, to say the least. Still slightly groggy from the taste of victory over the tough entrance exams, you rested on your laurels and assured yourselves that you were good. You must be good, you got in! But you didn't get all this stuff, maybe you didn't even like it, but you were going to be an artist or an engineer so you figured you'd probably catch on soon. Some of you strayed from the path of righteousness and indulged in too many of the tempting diversions which beckoned invitingly, especially when you were confused and dismayed by the amount of work required. However, you found that joining a frat, going to all the school parties, and investigating the art school were fun, but play had to come after work, so you burned the midnight oil and buckled down seriously. Cooper looked like home to you—you were there more than home anyway. You were initiated! Nevertheless, it all comes to the same conclusion; you have triumphed over exams, absorbed all the necessary culture, and beaten the instructors to the tape, and here you are graduating into the good old college of hard knocks. At a time like this your prevailing sentiments are apt to be just that, sentiments. The unpleasantness of those periods of sleepless nights are rather buried under a lot of happier recollections, and you almost like to brag about them now. You have a right to; you've left them behind in the dust; you're a fully qualified individual, no longer an embryo. You're going out into the world and you can earn your right and a fifth row center in that proverbial sun or fall by the wayside. It's up to you, so go to it and the best of luck!

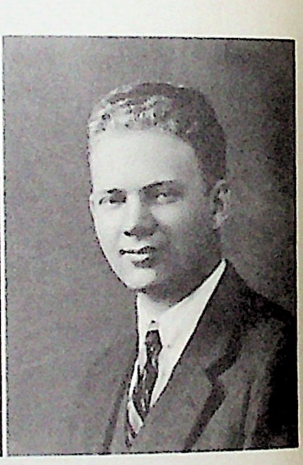
GRADUATES

Here is "Little Man, what now?", *Howard Adams.* Unpredictable as the weather, and yet always reliable when it comes to turning in homework. Howard hopes to write a text book on Thermodynamics some day, and it will certainly be a good one. Although seeming to be quiet and unassuming on the surface, beneath the outer shell is a sharp wit.

Michael T. Aquino, the bright boy of the class, who any time during class sessions is liable to disturb his peaceful classmates by asking a question that would start the instructor thinking for a while. He can discuss with you on any subject from chicken coops to the merits of the Bible, since he possesses a spark of versatile genius.

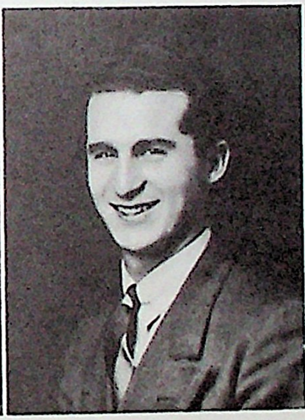
Bernard Bayuk boasts of the fact that he will have travelled 32,800 miles in commuting from Plainfield, N. J. by the time of graduation. He hopes to go places when he stops travelling. Aside from his Philadelphia activities (Suzy), Bernie was active in the A.S.M.E., the Pioneer, and the CABLE, and a frequenter of the Dance Club.

Although of Russian descent, *John Belikowich* apparently does not believe in the five year plan, having completed the M.E. course in four years. "J.B." claims that he can listen to a football broadcast, carry on a conversation and write a hydraulics report all at the same time. He is a member of the A.S.M.E. and S.A.E. His ambition is to memorize the steam tables.

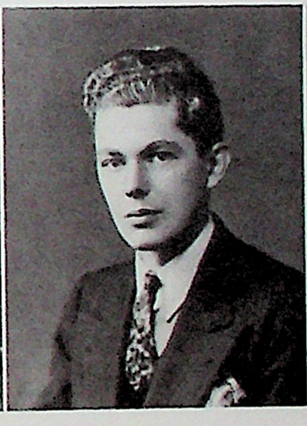


Raymond Bendett makes noise with a typewriter in the Pioneer office when he can get down there, but many a time the paper nearly lost his services because he just can't refrain from asking the most exasperating questions at the worst possible time. These questions are posed just before the end of a lab period, with a half hour required to finish the experiment.

Eddie Boudon, some six feet plus of good humor and a good whistler too—especially in the advanced structural design class. His obligato goes to pieces when he is wrestling with section moduli. Any way Eddie, we think U.S. Steel can't do without you. During his stay in the surveying camp he participated in a tennis match where he showed exceptionally fine playing.



As president of the student chapter of the A.S.M.E., *Milton Breitman* works hard — to get other people to work hard to present papers. After a long career of basketball and water polo captaincies (successful), Milt's great ambition is to break a hundred in bowling. Milt's day dreaming for the past year has varied in locality from Washington and Schenectady to 13th St.



Dapper and fastidious, *Gregory Brown* stands out by wearing his spats, even into the laboratories. It may be that many feminine hearts have fluttered after this gay blade who comes to school in frock coat and derby. Member of P. S. O. fraternity, also served on the Pioneer Staff... Not the least of his distinctions is doing well in his school work.

Roy Brushansky maintains that the lengthy assignments make their consistent punctual completion as unlikely as Baek's appointment to a diplomatic mission. He spends his nights at Cooper, and his days at the Navy Yard, where he is employed. Of course, we are not mentioning the fact that there is another interest that has curly hair.

Robert Burch an English gentleman who is very neat and immaculate in his work and his speech. Bob always goes to the trouble of making elaborate diagrams of all sorts in his report books. Bob distinguished himself in his class by being very quick in finding answers to problems or by quoting long formulae from the hydraulics text by memory.

GRADUATES

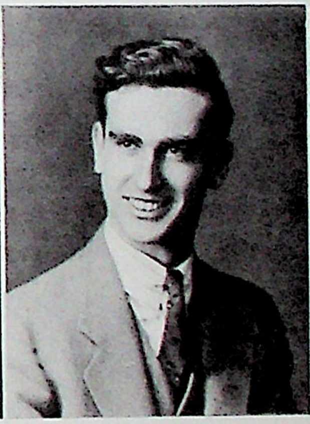
Edward Caligiuri is a firm believer of the back to nature trend; especially fond of the big out-of-blondes. The great big out-of-doorer goes in for dancing in a big way, being especially fond of the Smahiki Snake Dance and the Hottentot Stomach Warmer. Outside of these minor disturbances he is a well liked and a swell fella.

Frank J. Castellano is called the Dean for he is the only one in the class and perhaps in the whole school who has behind him 17 years of practical Engineering experience at the Brooklyn Navy Yard working up from an apprentice to an M.E. of which department he is in charge. As the "Dean" we pay him due homage and respect.

Bennie Center—an office engineer by day, engineering student at night and a "plugger" at all times. Ben believes in doing what he thinks right, no matter how much it hurts either himself or the other fellow. The picture of nonchalance at all times. As one of his classmates puts it, we may some day see Bennie at a big job.

Isidore Diamond is another Brooklyn man who hopes to graduate in one piece, although some of his classmates say it hasn't affected his appetite. He hopes to devote most of his future time to a variety of hobbies such as sports, symphonic music and billiards.

Every inch a gentleman quiet and unassuming is *Harold Donnelly*. Harold has been a great asset to his class, especially with his expert playing on the Class basketball team. In addition to his great activity in the Athletic Association, Harold has been an active member of the A.S. M.E. His hobby, ambition, and entertainment preferred is Hedy Lamarr.



Milton Dworkowitz the more silent partner of the friendship of Dworkowitz and Dworkowitz. During his sixth year sojourn in Cooper, his work in Chemical Engineering has always been very good, but his familiarity with the finest musical compositions would indicate a second interest that is certainly more than just a hobby. He epitomizes the anomaiy of a music-loving engineer.

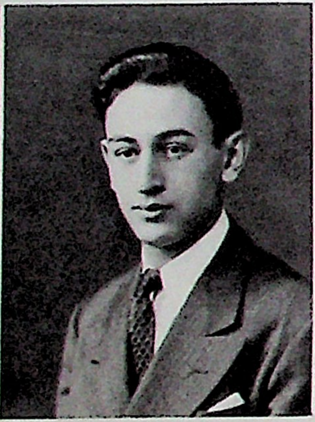
Joseph Elovitz is the class wit — he is the author of the witticims which were written extemporaneously on announcements, posters, bulletins, etc., throughout the school. Joe was active in extra-curricular activities, serving on the CABLE, Pioneer, and A.S.M.E. His hobby is entering football contests and his ambition is to win one.

Victor F. Eyerman's foremost ambition is to graduate. He likes the opera, symphonic music, and plays. But these he must forego until graduation, so June 1940 should see Victor leave the hermit life and see his friends again.

Out of the bush of Brooklyn Tech came *Murray Falkin* with his coonskin tilted at a snappy angle and his weather eye cocked for the chippies. He has been active on the Senior Alumni and entertainment committees. One of the trio of Lynn, Falkin and Fox who hope to be an incorporated construction company.

The Casanova of the Bronx is *Joseph Fegan* —he of the infectious smile and the roving eyes — looking for his wild Irish Rosie. His home is famous because something is always coming off there, according to Joe. He wants to be a successful engineer and get that vine covered cottage. Oh, Happy Day!

GRADUATES



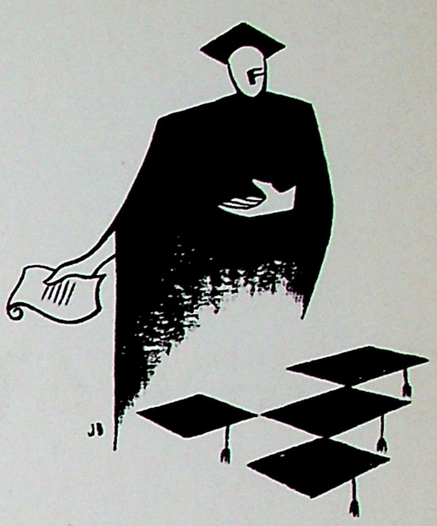
Bernard Fleck. He is following in the footsteps of his father, who graduated a number of years ago from the Civil Engineering course. Because he is a member of the O.D.P. and the A.I.Ch.E., he has always found traveling to Yonkers a difficult job. Outside of pinochle he enjoys dancing and swimming.

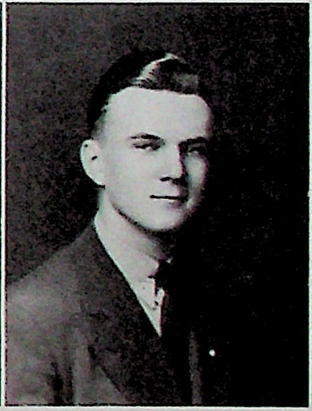
The second member of the Lynn, Falkin and Fox trio is *George Fox,* Senior Class President, winner of the Gold C, etc. He has run the gamut of extra curriculars and has impressed each activity with his personality. Well liked and congenial, he has the enviable ability of being able to verbally slap the instructors on the back; a great politician is being lost in George.

Bernard Frank is a communication man, that is, he hopes to be an engineer in the communications field. His hobby of devising workable radio circuits comes from this. He likes to travel and some day intends to make extensive trips all over the world. His favorite entertainments are music, plays and swimming.

George Frankenstein's hobby is radio, so his ambition naturally is to be a radio engineer. His other hobby, photography, affords the pleasure that many of us love. The entertainments he prefers are music, sports and the theatre.

Thomas Frascella is a member of the A.S.C.E. and O.D.P. Fraternity. His preferred entertainment is the cinema. Tom's ambition, which was clearly defined when he was a freshman, is to be a Civil Engineer. His hobbies include sports, of which his favorite is tennis. We hope he will soon have a chance to prove his ability along that line.





Among *Joe Friedman's* more outstanding achievements are the Friedman theorem that the product of two prime numbers, unless one be unity, cannot be a prime, the Friedman approximation for calculating the number of plates in a fractionating column by means of a simple empirical formula—it really works, and a sure-fire system for picking the horses—it sometimes works.

Oscar Frisch is a Civil Engineer from the Night Tech. Quiet, modest, unassuming, he has established an enviable record at Cooper Union. Great things are predicted for Oscar upon his graduation.

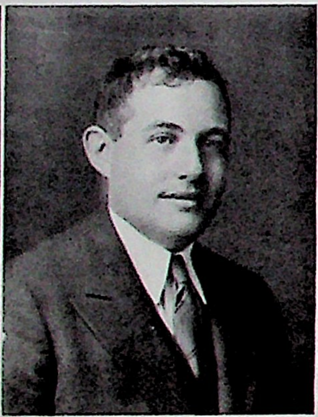
Samuel Gilman is always ready to refute or qualify anything mentioned, regardless of what it is. However, he always finds able opponents for a lively argument. Sam is the Vice-President of the night branch of the A.I.E.E. His interest in photography and books take up most of his spare time. His ambition is to be engaged in electro-physical research or electronics.

Big *John Glaser* (A.J. G.) is the only one who can argue with the librarian; this has nothing to do with his size, being merely 6'—4" tall and weighing 200 pounds. He claims he wants to educate the public to appreciate the services of the engineer. Haw!! Statuesque brunettes are his hobby, but he will take any floozy that comes along.

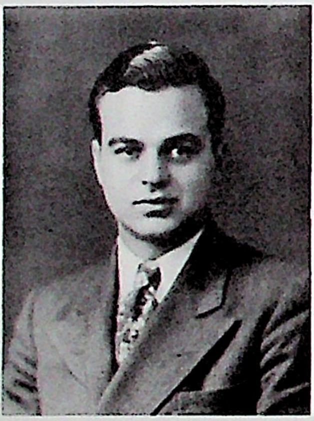
One of the members of the Class who will not be forgotten easily is *Max Glass.* He is a graduate of Brooklyn College, having obtained his B.S. degree. Between school at night and work in the daytime, there hasn't been much time for hobbies, but we have it on excellent authority that one will be picked up at his earliest convenience (that is, if she's willing).

GRADUATES

Harry Goode has the best professional position in the class, being a statistician for New York City. This, the class feels will be somewhat of a handicap to him in that he has the responsibilities of a married man. He will probably find it difficult to relinquish a good position in order to start far lower in the chem field.



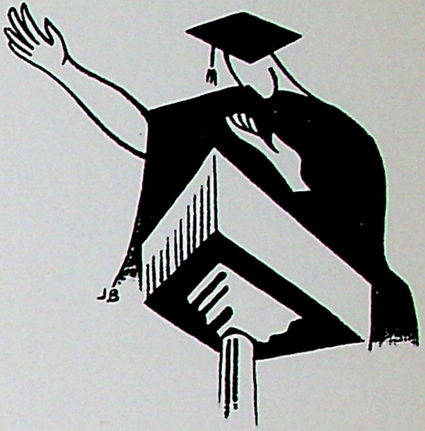
Isidore Goldman, the baby of the class, modestly claims no special talents. Not much of a ladies' man as yet, but Isidore is sure to arrive. Like all other he-men he loves his mathematics and chess, and is also a member of the A.S.M.E. He is the sort of quiet, unobtrusive fellow who sneaks in with all the high grades.



Robert Gordon is the Class intellectual and a competitor of Dr. Peterson for renown in Social Philosophy. Bob has been very active at Cooper Union, seeing service under the Pioneer, Fencing Club, Activities Plan Committee and Priestley Technical Society. He has been honored by the office of Chancellor of the M.A.O. and has tenaciously held on to his Schweinberg Scholarship for 4 years.

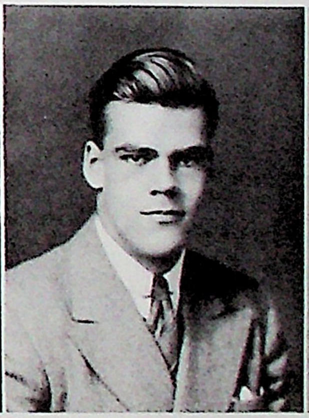
Isaac "Ike" Gormezano is one of those unassuming persons who is apt to be little noticed until his name is seen well up on the list for final marks; in his third year he won a Chem. prize. He is a capable worker in the labs, having worked in the chemical field all through his years at Cooper. His hobby—kidding Eddie Grohse.

Gathering what is agreed to be the finest collection of A's *Edward William Grohse* has paced the class throughout the six years. As a brother of P. S. O. and President of the A. I. Ch. E., Ed has been very active. He has been a radio assembler, an analytical chemist in precious metals work, and is currently doing research work in organic chemistry.

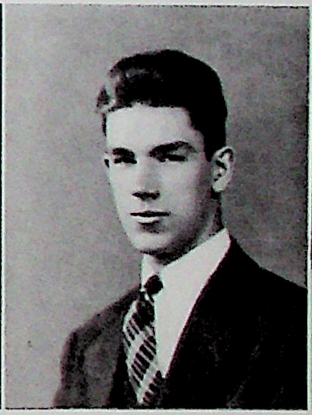


Sam Guzzardi was president of the class in 1936. His great ambition is to retire early and be a philanthropist. His common sense tells him that he can't get that way by being an engineer so what does our Sam do? He delves into real estate. His confessed interests are for the opposite sex and does he work fast!

Phil E. Hagerty, the present president of the A.S.M.E. and also a member of the S.A.E., will have the unique distinction of being a Civil Engineer with an M.E. degree. His great ambition is to make his teething son, Patrick, president of the U.S. His sadistic tastes appear when he claims a desire to see some instructor boiled in oil.



John Daniel Hanft, better known as J. D. Brought the convention of the student chapters of the A.S.C.E. to Cooper Union, after having been elected president of the local chapter. He is very much interested in highway work; also byway work with the heart throb from Long Island. John claims to be a companionable ale-drinker, whatever that is.



In all the class, *John Harrington* is probably the most quiet, and certainly is one of the most efficient men. This characteristic of quiet efficiency, and his calmness under fire should make John well suited to carry out his ambition to engage in research work, although at present it doesn't seem to enable him to conquer the "Moonlight Sonata" on the piano.

Philip Horsting may well be considered the Senior class statesman. Whenever Senior Ch. E.'s were confronted with the problem of choosing a committee, it was only a matter of ritual for Phil to be nominated, seconded, and unanimously elected chairman. Phil's characteristics of clear thinking, smiling personality and good nature will stand him in good stead in later life.

GRADUATES

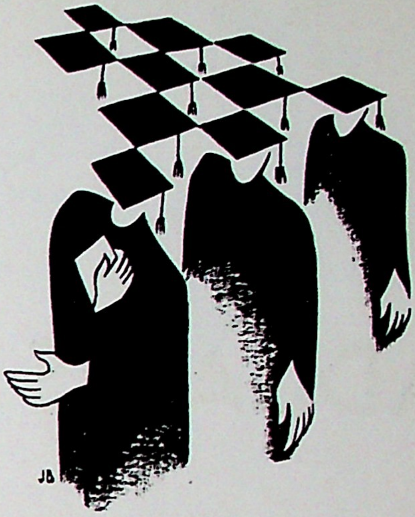
Edward Kalfaian is a student member of the A.I.E.E. whence no doubt he picked up the hobby of electrical experimentation. This, he feels, will also aid him in becoming a full fledged E.E. For relaxation, he chooses music and tennis.

Charles Kanigel—"Mad Chemist"—has us wondering at his skill at making explosive mixtures out of the most simple chemicals. But, you must not get the impression that Charlie does not know what is going on in class. He hopes to eventually become a consulting Chemical Engineer—a position which he will fill with the utmost of ability.

Malcolm J. Kaplan, the sleepingest man, gets by with a minimum of effort. As relaxation from building battleships he likes soft lights, sweet music, and of all things, conversation. His main ambition is to graduate so that he can catch up on his sleep. A staunch member of the A.S.M.E., the only other society he enjoys is that of pulchritudinous femininity.

Giving Irv a close run for the "most colorful" title is *Paul Kaufman*, also known as "the late Mr. Kaufman" because he never did learn how to make that first morning class. Paul's vice is seeing the answers to his questions in the middle of the asking, and then leaving everyone on tenderhooks wondering just what it was he wanted to ask.

We call *Tom Keaveny* "The Politician," and you would too if you heard some of his dissertations on the subject of Proportional Representation. Tom's story telling ability is what distinguishes him in his class. You would agree with me if you heard his story about the Jew and the Irishman on the street car — or "2 cents soda, make it sweet."



George R. Kent (Duke) is the steel expert of the class. He does not believe in the conventional formulae derived in the text or by this instructor. George usually has his own method known as the "Kent Method." George has been working for the I.R.T. for the last 12 years and his ambition is to become the chief consultant engineer.

Edward Kondrajian can usually be found in the inner sanctum of ODP Frat-House where, like all good Fraters, he goes to play pool. He has played on the intramural baseball team and is a member of the A.S.M.E. Ed is the miracle man of the class, coming through the ME-CE football feud uninjured.

Representing the O.D.P. and the Newman Club, we have *Walter J. Koroshetz*, who is one of the quieter members of the class. It has been seriously rumored that he is not particularly fond of the opposite sex; it must have been something in his youth. Besides this obvious fault, Walter is a hard and conscientious worker and is liked by all.

John J. Kozlowski has been very active in extra-curricular activities. He has served on the Pioneer as night tech. editor, the CABLE, Dramatic Club, Annual Dance Committee, and is Secretary of the Senior Class. Societies include A.I.E.E. and Lambda Tau of which he was Vice-Chancelor. John's ambition is to own a fine library. Dancing is his preferred entertainment.

When *George Krulewitz* first entered into Cooper, he was somewhat of an energetic jitterbug as witnessed by his antics in the Chem Lab. Alas, Cooper Union has taken this last remaining spark of youth away. George is now one of the most conscientious and capable students in the class, and if given the chance, he is bound to make good.

GRADUATES

Oscar Kummer is an O.D.P. (Omega Delta Phi) member, so any time you want Oscar, drop in at the Frat House and presto! Past secretary of the night A.I.E.E. and President last year, he has arranged some interesting talks on communications during the past year. His hobbies he says are dancing, drinking and sleeping and his ambition to make his hobbies his vocation.

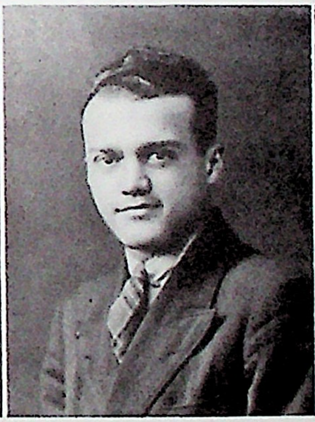
Bill Lawrence and *Hy Lacoff* are the two inseparables of the senior M.E.'s. Unlike Bill, Hy is the class "idle." His invariable good humor kept the class cheerful. Hy is a member in good standing of the ASME and the Cooper Union Order of Rummy and Bowling Enthusiasts. His three years of lunch time rummy have netted him two dozen cup cakes.

William Lawrence can always be depended upon for a completed report by 1:30, tho' he complains, taking indicator cards in one hand while eating a sandwich is a bit awkward. Bill has made several summer trips with Hy Lacoff in Hy's Plymouth, going as far as Yellowstone Park and Canada. Bill is an ASME man and also a rummy enthusiast.

Nathan Lee comes from New Jersey where there is plenty of opportunity to go horseback riding, his favorite hobby, besides music. He is a member of the Alpha Mu Sigma fraternity and the night branch of the A.I.E.E. Some day he hopes to be a good engineer in the broad sense of the word.

Solid Sender Lynn *Horace Linsky* to you, was the organizer and leader of the school orchestra, in which he tooted a fancy sax. He is the third member of the construction firm of Lynn, Falkin & Fox and has a start on the other members of the class, inasmuch as his papa is a contractor. Horace is well liked by his fellow students.

Raymond R. Maccari has the distinction of being the only fellow who started in Cooper Union as an art student and ended up as an M.E. He must be a magician of the first order. The envy of his classmates when it comes to neat drafting, he still claims artistic tastes and likes dancing, drama, and music, and the women.



For the position of successor to P. G. Wodehouse, we nominate *Irving Machlin*. His sharp refreshing humor, as presented in articles published by the Pioneer, is probably responsible for one-quarter of the paper's circulation. He is one-half of the Pioneer. Although engineering is his first love, he has promised that he will continue his journalistic activities after graduation.

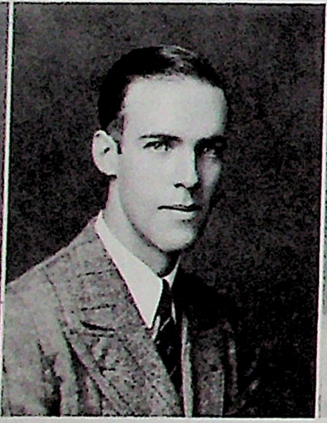
Joseph P. Marchetti, another Brooklyn boy, has the knack of taking things in his stride. He sometimes falls a bit behind in his assignments but, like the best, catches up on time. His pet peeve is that the instructors don't tell him the answers. A member of A.S.M.E., he likes radios, music, and hiking, and the women.

Arthur Matzick is apparently one of the quietest of men, and the most versatile. He is a machinist, amateur astronomer, photographer, music lover, and the only Ch.E. who can imitate a cuckoo on a piece of ½ inch galvanized pipe. Art is usually found draped around a packed tower. He is one of the charter members of the newly organized A.S.Y.

Bernard McLaren is noted both for his geniality and for the ease with which he changes his mood. During classes, when all are supposed to work, Ben can be seen working as diligently as any other student. But during intermissions, he goes to the other extreme and relaxes completely in a Morris Chair at his fraternity —O.D.P.

GRADUATES

S. Eugene Michaels, the sharp shooting former member of the rifle team and member of Omega Delta Phi, Lambda Tau and the A.S.M.E., still carries a smile on his face after so many years at Cooper. Sad news for the girls, Gene intends to remain a bachelor. He goes in for golf and his hobby is tuning forks. Page Ripley.



John F. Middleton, the strong silent man of the class, keeps his troubles and woes to himself. He indulges in photography and is an expert builder of ship models. John is a serious but sensible fellow and can always be relied upon to ask a sensible question at the most opportune time. He is also an active member of the A.S.M.E.

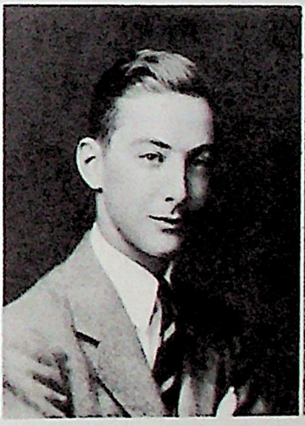
Abraham Miller sports one of those slow drawls which come from way out west. We've discovered that he uses it to conserve his energy for the times when a problem or a basketball comes his way. As for basketball, he has been captain of the class team for four years, and has led the team to two championships.

Leon Miller. Up to the time he entered Cooper, Leon's passed away his time in tinkering with radio transmitters and receivers, but on going to school, had to drop it. Upon graduation he hopes to get into railroad electrical engineering. His hobbies include music, good plays, and good books.

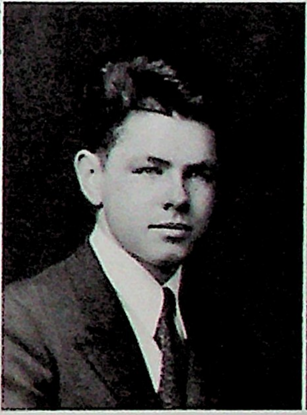
Herman Mueller is the E. E. with two ambitions, one from an engineering viewpoint, the other from an academic viewpoint. The former is to become engaged in some sort of experimental research dealing with power generation or distribution, the latter to contribute to a solution of the social and economic maladjustments prevalent in this country. His hobbies include handball, tennis, chess and sleeping.

Daniel Muhlmeister is an exception to the rule that a student's ability varies inversely with his distance from the front of the classroom. When Dan has been unable to solve a problem it's a foregone conclusion that none of us has solved it. What greater praise can we give him than to say that he knows enough about engineering to be able to argue with Prof. Radasch.

Irving Neshin, who hails from Jersey, has made many friends in spite of it. His duties as Treasurer of the A. I.Ch.E. did not affect his sense of humor, which is one of the best in the class. He spends most of his waking hours striving to realize his ambitions; that is, striving to become a Chemical Engineer.



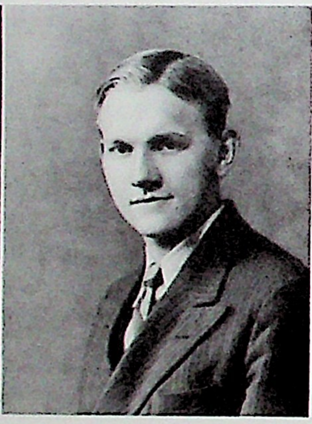
Henry T. Perez, banker by day—student engineer by night
Sipping beer with Somson is his greatest delight
Over difficult problems the others ponder
While he and Somson to parties wander
But never let it be said
That Perry has any screws loose in his head
For he probably will be the one
Who will accomplish a job well done.



Another quiet fellow who managed to come through is *James Pettit.* Smiling Jimmy became the pride and joy of the class when he did what everyone had been secretly wanting to do. He successfully blew out the main circuit breakers in the machines lab, and the sight of Jimmy standing in a cloud of smoke is one that will never be forgotten.

Bill Pfann, one of the famous foursome of Pfann, Fleck, .Kummen, and Walsh, who are all enthusiastic pinochle players, is one of the Ch.E.'s. His chief ambition is to become an outstanding Research Metallurgist and Metallographist. (WHEW! Good Luck Bill.) Photography is just one of his hobbies. Bill is a member of the O.D.P. Fraternity. His favorite sports include tennis and handball.

GRADUATES



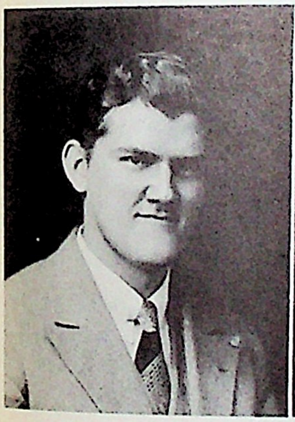
Isidore Plotkin is the class magician as his hobby is magic. Some of the class wondered why a party was not organized, with I. P. displaying his wares. He is also a member of the student branch of the A.I.E.E. and at one time was on the staff of the "Pioneer." His ambition is to become a research engineer.

Oscar Plotkin likes to argue on any subject, and if there is any loud argument, look for Oscar. His ability to say the wrong thing at the right time is usually the start off point, and jumping at conclusions is his favorite exercise. If this is not entertainment enough, he listens to good music or reads non-technical books of general interest.

The big brain trust of the class is *Frederick Valentine Pohle,* who continually amazed his fellow students and "Shoeless Joe." As a member of the champion mathematics team he distinguished himself. Through his brilliant scholarship, he was elected Scribner of the M.A.O. In his spare time, those five minutes after breakfast, Saturday morning, he is a photography, fishing, and baseball bug.

Julius Port is well known for the variety of his pipes in size, shape, and particularly in odor. The whirling cloud of smoke gave him the appearance of a cyclone as he dashed about from one activity to another. Port, Rosen and Quart form the friendliest group in the class, with the latter two arguing and Julie trying to smoke them both into submission.

We come next to *Irving Quart*. Everyone in the class, and probably a good part of the outside world stands in awe, if not in admiration of the mighty Quart voice. Big, good-natured Irv can get correct answers to tough problems out of thin air, then for the life of him can't explain where he got them from.



Is Long Island represented in the Senior Class? Of course it is, and by a man who brings honor to all Long Islanders. *Frank Quattlander's* friendliness and geniality have made him one of the most popular members of the class. His native foresight and prudence indicate that his career will lead him into the executive field.

Ed Quinn is one of the more quiet boys in the class, but when it comes to topics such as the theater or literature, he's right there on top in the discussion. His prompt and accurate answer in Social Philosophy Colloquium as well as his calm discussion of engineering problems, has made him a valuable member of the class.

George P. Quinn is one of those rare people who is so intent upon helping other people, even to the extent of neglecting his own work. Mildness is well defined in him, his apparent lackadaisicalness is very apt to deceive one into understanding George's true ambition and outstanding ability. George is a member of P.S.O. Fraternity and the Newman Club.

Sam Rabinowitz is the class president, a climax to many years of service. From his earliest years at Cooper, he has thrown himself into extra-curricular activity, always ready to work on committees. Sam is an ardent outdoor enthusiast and loves to broil his steak in the wilds of upstate New York, with the tears rolling down his smoke-grimed visage.

Robert A. "but you said" *Rankel* never handed in a late report or assignment during his stay at Cooper. What a rep. to live down, but as he says "I'm going to be an engineer." A member of the A.S.M.E. and the Newman Club his hobbies include sports and metal and woodworking. Confidentially though, he believes that only wives can have "hobbies."

GRADUATES

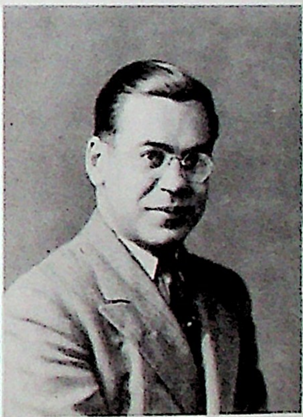
Irving Rappaport is one of the few Ch.E.'s who can still give a good account of himself on the athletic field after four years of school. He excels in basketball, tennis and swimming. Irv never lets minor annoyances make any dent in his good humor and always comes out on top when the pressure is on.

The man with the softest voice in the class, *George Rolly*, claims to have been a barker for a Rockaway side-show. He is famous for his tall stories. Someday, George hopes to tear down the Third Avenue "El"; we are sure he would thus become the greatest benefactor to Cooper Union Stewdes. He has been very active in extra-curriculars.

Howard Ruopp was one of the mainstays in the Annual Freshman Reception, wherein his amazing chemical magic and sparkling wit helped make the affair a success. We will long remember his amazing derivations of certain chemical laws. The personification of good scholarship and fellowship in ideal proportions, H. J. has endeared himself to all of his fellow students.

Charles Abraham Rosen has accomplished what to the rest of the class seemed impossible, for he not only was very active in school affairs, but his scholastic accomplishments were of such excellent calibre that he was awarded a Schweinberg Scholarship, and was made a member of the MAO during his Junior year. Al is undoubtedly the class authority in electric and magnetic fields.

Jules Rothmayer is one of the quieter members of the class. He is noted for his diligence and thoroughness and has never been seen to copy an assignment from any of his classmates. This is an accomplishment. Jules is a chess fiend, member of the A.I.Ch.E., and Math Club. In these societies, his distinguished features are always in evidence.



Frank Schaefer is the type of person who "hides his light under a bushel." Not until we had known him for two years did we realize that in spite of his quiet, unassuming manner he is one of the most capable engineering students at Cooper. His performance in the Senior show indicated that engineering's gain is the stage's loss.

Herbert O. Schein is very much down to earth in spite of the fact that he hails from Ozone Park, Long Island. Herb has two desires—to keep up to date on homework assignments and to get enough sleep. The class is duly grateful. His ambition is to keep his car running until the Ford Museum comes through with an offer.

Murray H. Schwartz, vice-president of the class, claims the ability to outguess the profs and anticipate their quiz questions. He believes that social life comes first and that assignments can always be done on the boss's time. He is on the roster of the Alpha Mu Sigma fraternity and the A.S.M.E. and is not in the least partial to blondes.

Leo Shapiro is the camera fiend, but a shy hobbyist. Although he has never brought his Leica to school, his own circle of friends tell us that many of his pleasure hours are spent in a dark room. Leo hopes to become a chemical engineer which is not a very startling ambition. We are sure he will be a good one.

Morris Siegel, whose mustache is as meticulous as his laboratory reports, is the diplomat of his squad of five foremen. "Siege" is an expert judge of other fellows' girls, but certainly is mysterious about his own. Morris is in the A.I.Ch.E., Priestley Society, Math and Chess Club. Preferred entertainment includes concerts, plays and listening to the more famous Ch.E. comedians.

GRADUATES

Daniel Silverstone is the man who is a stickler for details, i.e.; he has to be shown. Never argue politics with him. He is one of those who always let their work go to the last minute and then knocks off a twenty page report. He is good natured and well liked.

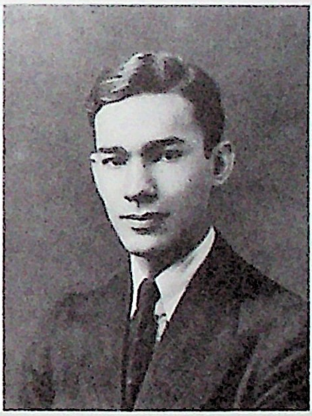
Another one of the brainstorms of the class, *John Skiba*, treasurer of the A.S.C.E. and Bursar of the M.A.O. John has held a Schweinberg Scholarship for four years. Skiba's great passion is luscious black eyed Ukrainians. He claims to have a special talent for watching other people play. Just how do these talents tie up—we wonder.

Morris Slutsky is every inch an engineer. His ability to handle with accuracy any task he undertakes has won for him his classmates' admiration. His activities run through most of the extra-curricular field. Service in the A.I.Ch.E., Priestley Society, Math Club, Intramural Basketball, and an appointment to the honor society, Mu Alpha Omicron, have made his school career quite full.

A. Spencer Somson, the ambitious C. E., may always be found in the students' library, solving difficult problems with his slipstick and reading the latest periodicals. Spencer is a smooth talker, which may account for his ability to get along so well with those of the fairer sex. His ability is evident in many fields both in and out of school.

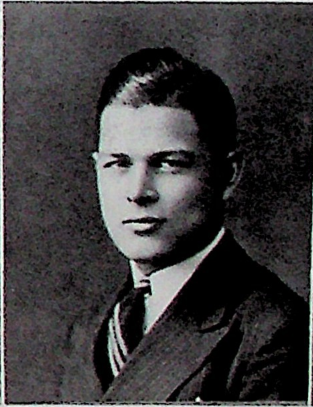
Jack Sonberg has served as Managing Editor, Editor-in-Chief, as member of the Board of Control of the Pioneer, thus earning him his Lambda Tau key. He was the Athletic Association treasurer last year. His hobbies, ornithology and literature, seem different from those of more prosaic engineers, but he makes up for it by intending to do plastics research.

Joseph Spindler is a unique combination of Dodger fan and Vice-Chancellor of the MAO. Joe's scholastic ability is of such quality that it has earned him three consecutive Schweinberg Scholarships. He has always managed to get all homework in on time. It was his efforts that resulted in the revival of this year's CABLE after it had been doomed.



Our own Connecticut Yankee, *Sidney Stark*, hails from the good City of Bridgeport. Sid has been President of the Priestley Society and a member of the Pioneer Board of Control. He was the instigator of the Chess Club. His individual specialty is dismissing a problem by telling the instructor it is pure substitution and then watching the reactions from a safe distance.

Wild Bill, *William Livingston Stone;* terror of the pampas, scourge of the mesa, and wolf of Astor Place. After having overcome Cooper's ordeals, he wants to retire from active life and interest himself in long distance hiking and bicycling. He went in for the varsity Rifle and Fencing teams. This noble and courageous character desires a job that permits traveling.



Leopold Strauss confines his hobbies, talents and preferred entertainment to Sylvia. Another battleship builder, he expects to wake up one morning as president of General Motors. He originally was an artist. He's the type of fellow who goes around during the annual dance asking his classmates the size of bolts to use on a problem not due for three weeks.

The minstrel from Brooklyn, rotund and well liked, is *Max William Strauss*. His Mammy calls him T-bone, cause she staked him for a long, long while. He is the little man who is always there, being business manager for the Pioneer, past president of the A.A. and chairman of the Refugee Committee. Max has won the coveted gold and silver "C's."

GRADUATES

Barney Strom is a math enthusiast who reads books on the Theory of Numbers as others read novels. Ice skating is another hobby of Barney's and his daring has resulted in a broken arm on one occasion, and scalp wounds on another. Perhaps he was deriving the equation of the curve his skates were describing when he hit the wall-boards.

One of the strong silent men is *Edmund Tanner*, who is the engineer's type of engineer. A good-natured, unruffled soul, with a mania for doing assignments at the last minute, Ed managed to sandwich enough "book larnin'" between his uncle's machine shop and the lone movie in Spring Valley to merit school scholarships for his last two years.

Milton Tenzer is one man who succeeded in keeping his sense of humor, and whose love of beauty, both abstract and concrete (especially the latter), has been one of his hidden characteristics. Because of his very persuasive nature, Milt frequently manages to convince others to reach the wrong conclusion, which he himself, however, refuses to accept.

Walter D. Tucker, commonly known as "Tuck" or "Tommy," was the vicious fireman of the Frosh reception who broke glassware, threw pails of water at the faculty, and finally put out the fire. This activity came natural to him because of his levity in Unit Operations Lab. He founded the A.S.Y. and held a Schweinberg Scholarship. He is the only research man ever to combine cyanide and a galloping Erector-set electrode.

Ernest von Storch is a good student and friend. His outstanding characteristic is his reliability. Whenever there was work to be done, Ernie could be counted on to give his full support. He accepted committee appointments, and never failed to turn in a workmanlike job. Ernie is surely in line for whatever reward the most willing worker in the Senior Class deserves.

Edward G. Walsh, one of the outstanding Ch.E.'s of the night seniors. Ed's hobbies include building models in his home workshop, and also designing original bric-a-brac. His ambition is to be a research engineer. Ed belongs to the ODP fraternity and many of his free hours are spent in the frat rooms playing pinochle, which is his favorite pastime.

Ed Warner is the practical man of the class, delighting in drafting intricate diagrams into his reports. The class drew the line, however, when "Pop" took to drawing in bricks on the floor plans. Ed is unique in that his avid interest in engineering matters persists after 4:30, it having been rumored that he even reads the monthly "Mechanical Engineering."

John J. Weipert, the tallest man in the class, desires to travel and become a consulting engineer, no less. He prefers the cinema, debates and music. Although you'd never believe it to look at him, he has the unique knack of getting by, but how, no one seems to know. Other hobbies include concerts, tennis, chess, and various other sports.

Saul Weitz, he of the mellow voice, made a grave decision when he decided to become a C.E. instead of a hog-caller. Standing on a drawing board to draw is one of the accomplishments he gave up, since it not only cramped his style, but didn't do his posterior any good. Saul is an extremely capable worker, easily adjusting himself.

While at Cooper, *John J. Weixel* (J.J.) has probably run up more mileage than any other Cooperite — commuting to and from Nyack. He is a valiant fire-eater, serving as a member of Rescue Squad No. 1 of the N.F.D. and as fireman at the Freshman Reception. He favors blondes and sitting in the darkened lab with his arms around his beloved turbidimeter. He is also a member of the A.S.Y.

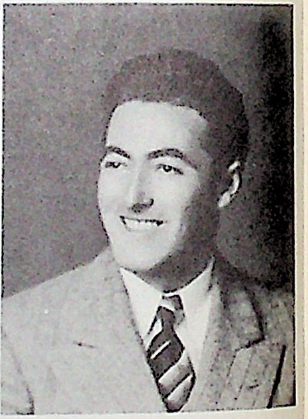
GRADUATES

Benjamin Wendrow lost no time in making a name for himself as a high ranking Ch.E. student. Ben, a born laboratory worker, drinks his coffee from a beaker and warms his hands over a Mekker Burner. His superb work as Treasurer of the Senior Class was to be expected from a fellow as systematic and immaculate as he is.

Burton G. Winer, the boy from Bellaire, N. Y., is a stickler for details and will argue a recitation away, to his classmates' delight. He prefers sports and goes in for water, liquid and solid, liking swimming and ice skating. He desires above all to enter research for the development of machinery. His secret ambition is to win a Nobel Prize.

Leslie Wizemann's sartorial elegance and suave manner would indicate that some day an executive desk will take Les away from the engineering laboratory and plant. He has proven his executive ability as foreman in the Chem Engineering Lab. Indications are that he will soon become the senior member of a partnership, the party of the second part being a fair damsel.

Herbert Wolff is a hard-working electrical engineering student whose main ambition is to become successful in his chosen field. In the way of entertainment he enjoys music, reading, and the moving pictures. Due to the fact that he owns a car he has become interested in automobile mechanics, and through no choice of his own, it has become his pastime.

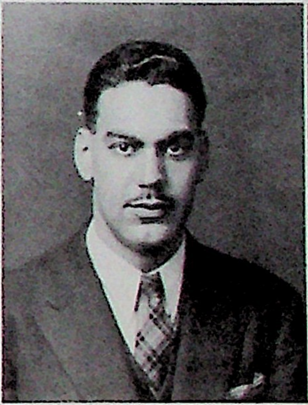


Joseph Zalinsky is a Chem. Engineer in the Night Tech. A modest youth of great reknown, we let the record he built up at the Cooper Union speak for itself.

Eli Zinberg is always to be seen in lab and classroom industriously taking readings and making notes. However, his fellow classmates are sometimes startled on hearing the gracious notes of an aria from an opera issue forth from his throat; but opera is one of the loves of Eli; and who are we to object to such a noble attachment.

Hector Zucchino is a quiet, unassuming gentleman who nevertheless gains much attention by the quality of work he does. He has recently forsaken the company of the sadly dwindling number of remaining bachelors in the class. His interests seem to be about evenly divided between owning a house in New Jersey, becoming a successful chemical engineer, and raising a family.

Morris Zuckerman is known to his classmates as "Zuck" and Professor Roth prefers to refer to him as "Zook." He is usually a quiet fellow but in his quiet way he seems to be doing quite well for himself. Zuck shines best at parties with his classmates. After a few sips of beer Zuck becomes jovial and in high spirits.



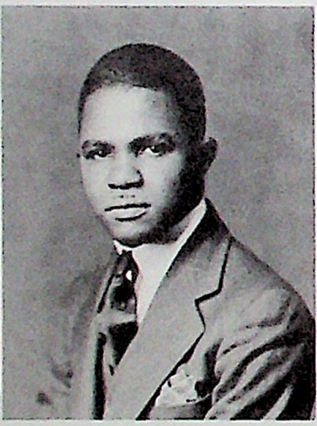
Morton Abler—
Calmly he walks midst beautiful shapes;
Abstractions whirl 'round his head.
A harsh word from him just never escapes—
The reason—well, he's milk-fed.

David Balter—
Last name, Balter, first name David, initial W.
Industrial designer to be.
With his achievements we will not trouble you,
We say, "just wait and see."

GRADUATES

Sidney Block—
Connecticut bows with three salaams,
To Sid from Waterbury,
Who knows full well that music hath charms,
And Picasso's er-r?—very.

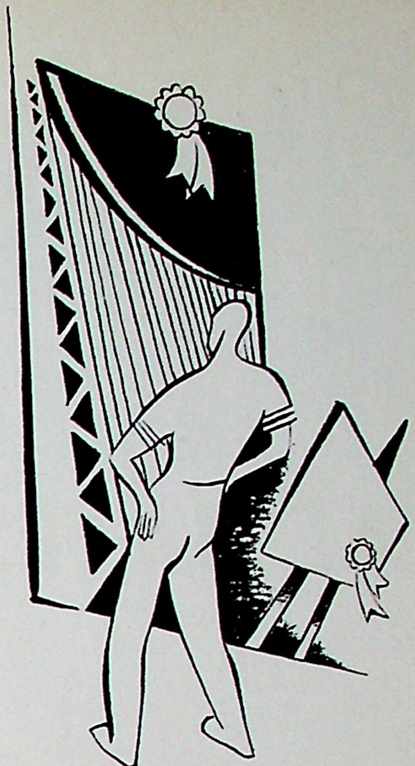
Adelaide Bloom—
When the "Malaguena" sounds through the halls,
And its thump makes all work cease,
And brushes stay poised till the last note falls,
We cry "May her tribe increase."



Charles Brice—
Paint, he finds simply swell,
Works away like a beaver.
Classicism goes to h—
With his every new endeavor.

Helen Christie—
Wherefore so quiet, little mouse?
Oh, tell!
What are you always thinking?
Why keep that wisdom in your shell?
Oh, why?
O' violet, shrinking?

Beatrice Cohen—
Deep social significance is her theme,
And steadfast her position.
While she bats out textiles, as in a dream
Of selling all — she's wishin'!



Ruth Cohen—
Our class baby — she's no dope!
Our Bernhardt, from drama, turned to schooling.
The theatre gained.
Now we hope
That her students don't think we were fooling.

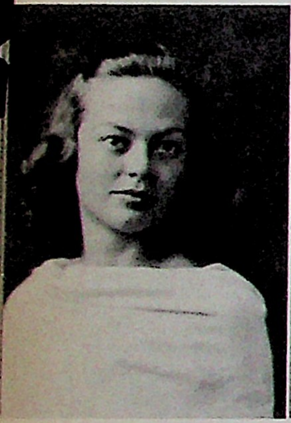
Mae Cooper—
No relation to Peter the good,
None the less, she isn't bad.
She goes around in her little snood.
She's some stuff.
Oh boy!
Egad!

Al Eiseman—
In a surrealistic world he lives
And quizzes are his forte.
When he paints no emotions he gives
E'en tho' he knows he ought-ter.

Maurice Gerland—
There is no instructor who's immune
From Gerland's
Imitations,
Nothing's sacred then, but very soon
He starts on art creations.

Martin Holesek—
With dexterity that's quite fine
With an eager inspiration
He turns out each good design
There's no end to his creation.

GRADUATES



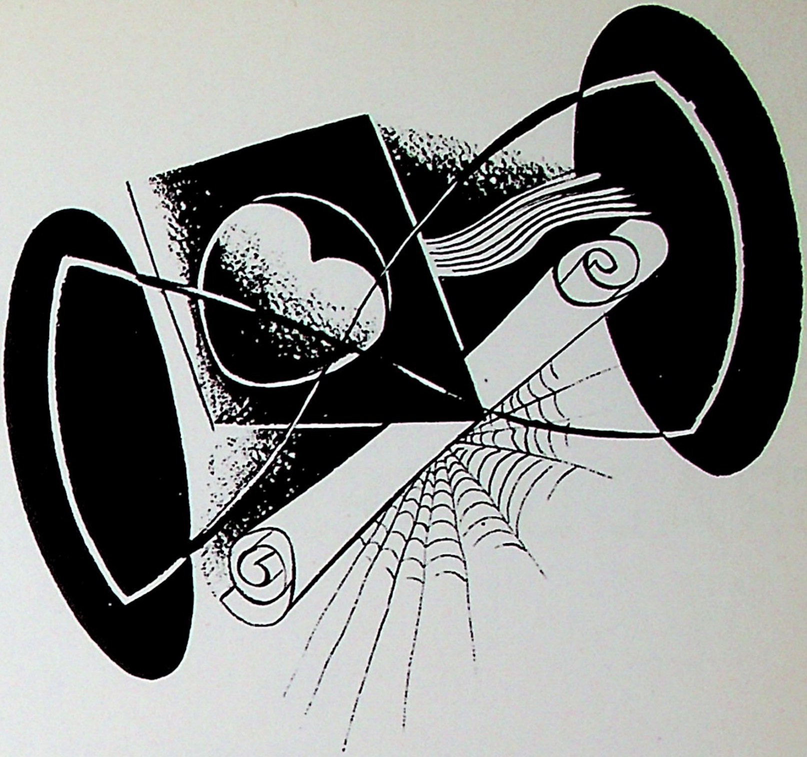
Jacqueline Isaacs—
When Jacky eats her beans at luncheon,
As the minutes pass we wait,
As single beans she sits a-munchin'
We watch, oh! sinister fate.

Florence Kirschen—
Florrie walks as her doggie does wallow,
A fine fashion illustration.
The concourse boys behind her follow,
Very soon so will the nation.

Marjorie Mercer—
At fashion illustration she does well,
As dear Margie has desires.
Her designs she surely wants to sell
As to Bergdoff's she aspires.

Ottillie Nalbach—
Ottillie is quite a cutie,
And she carves in stone and plaster.
In her search for living beauty
Certain sculpture is her master.

Julius Orgel—Undisturbed by outside noises, Julius gently went through school. Working hard while the girls and boyses Romp around his drawing stool.



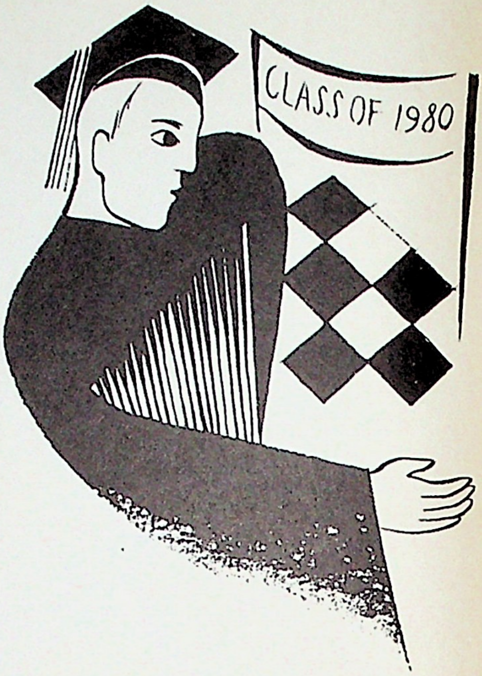
Helen Poppe—
Our own Helen, midst
flying stone chips,
Works away at beauty
pure.
Straight away, she'll
be, with no slips,
Second Maillol, we are
sure.

Martha Rudat—
When the roll was
called at Cooper U.
And up stood **pretty**
Rudat,
All the architects
stopped as they drew,
And loudly called,
"Well!
Who-dat?"

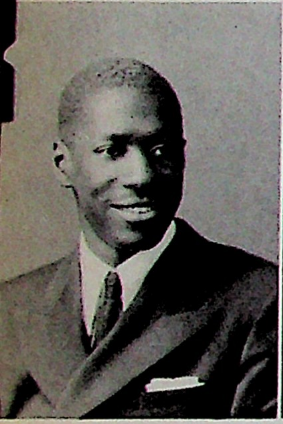
Irving Sabo—
Industrial design was
his pet,
He knew wherefores
and its why.
And all who knew him,
they all would bet
That he was one super
guy.

Shirley Sack—
Assistant to Miss Mc-
Neely, she
Was always very busy,
And yet she had time
for adv.—and a he
And still remained un-
dizzy.

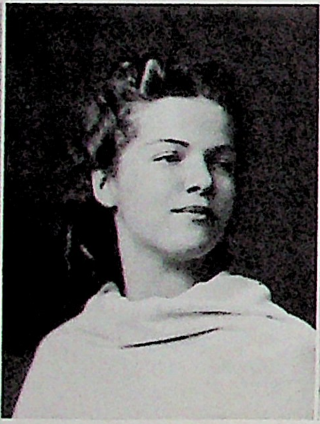
Anthony Schiappa—
Tall and lanky, long
drink of water
He worked at advertis-
ing.
And what he thought,
or why, we're sort'er
Still furtively surmis-
ing.



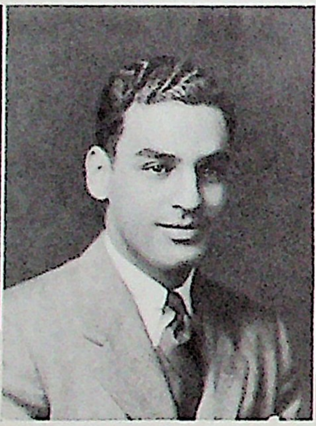
GRADUATES



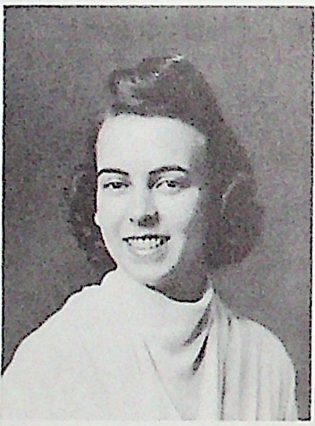
Arthur Smith—
Mr. Smith, he went to Cooper U.
With a big wide grin and a laugh;
And he worked, as we all had to,
Now the grin is reduced by half.



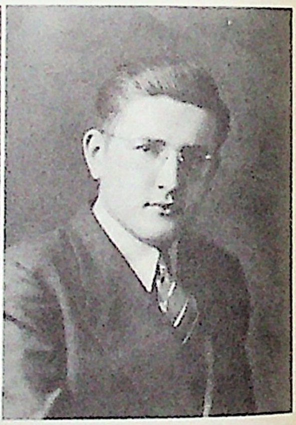
Lavina Stein—
L. Piazzani was her name before
And single was her station.
While at Cooper that was changed, and more
Textiles are her creation.



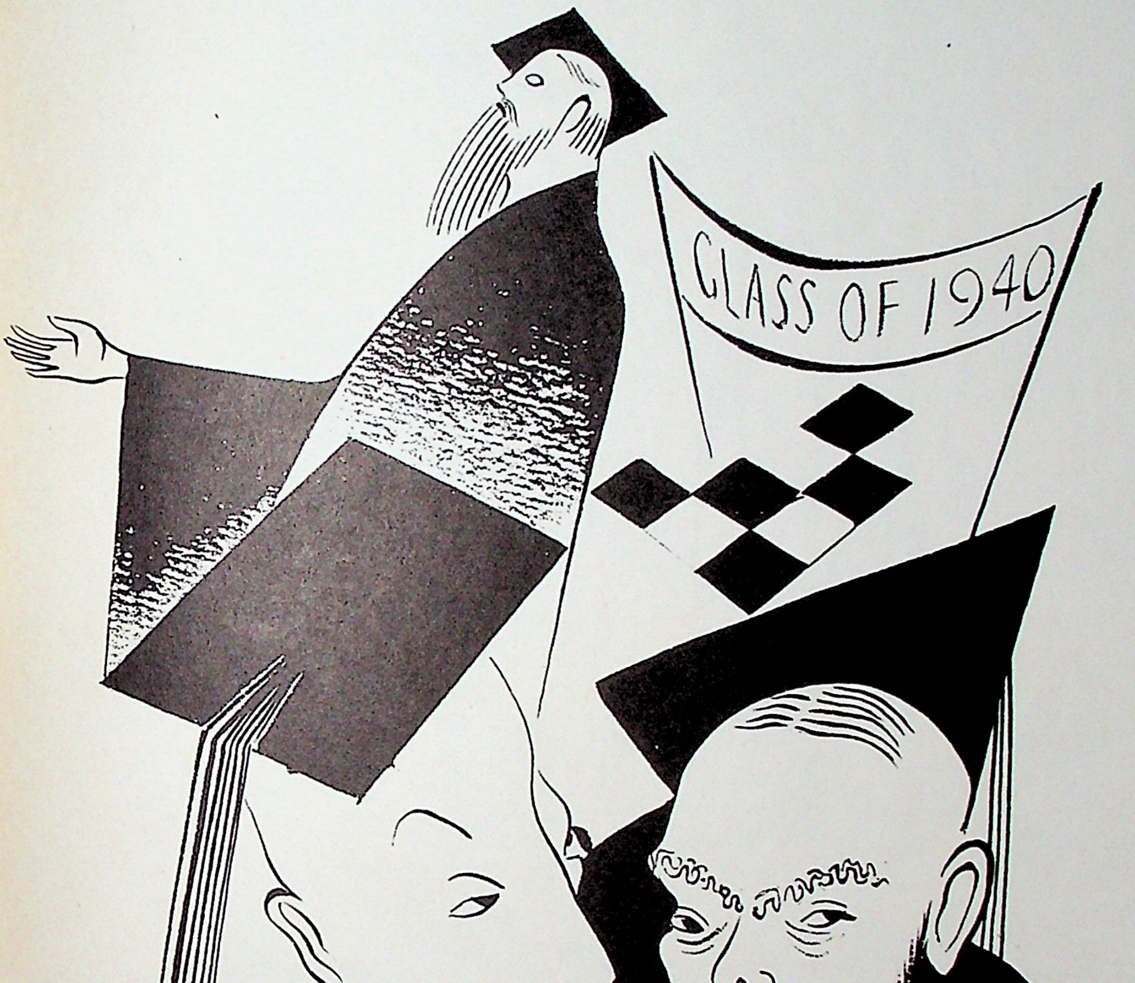
Ellis Wolff—
While he works all day, he, too,
Finds that Art is so all right
That he is real willing to
Do his studies through the night.



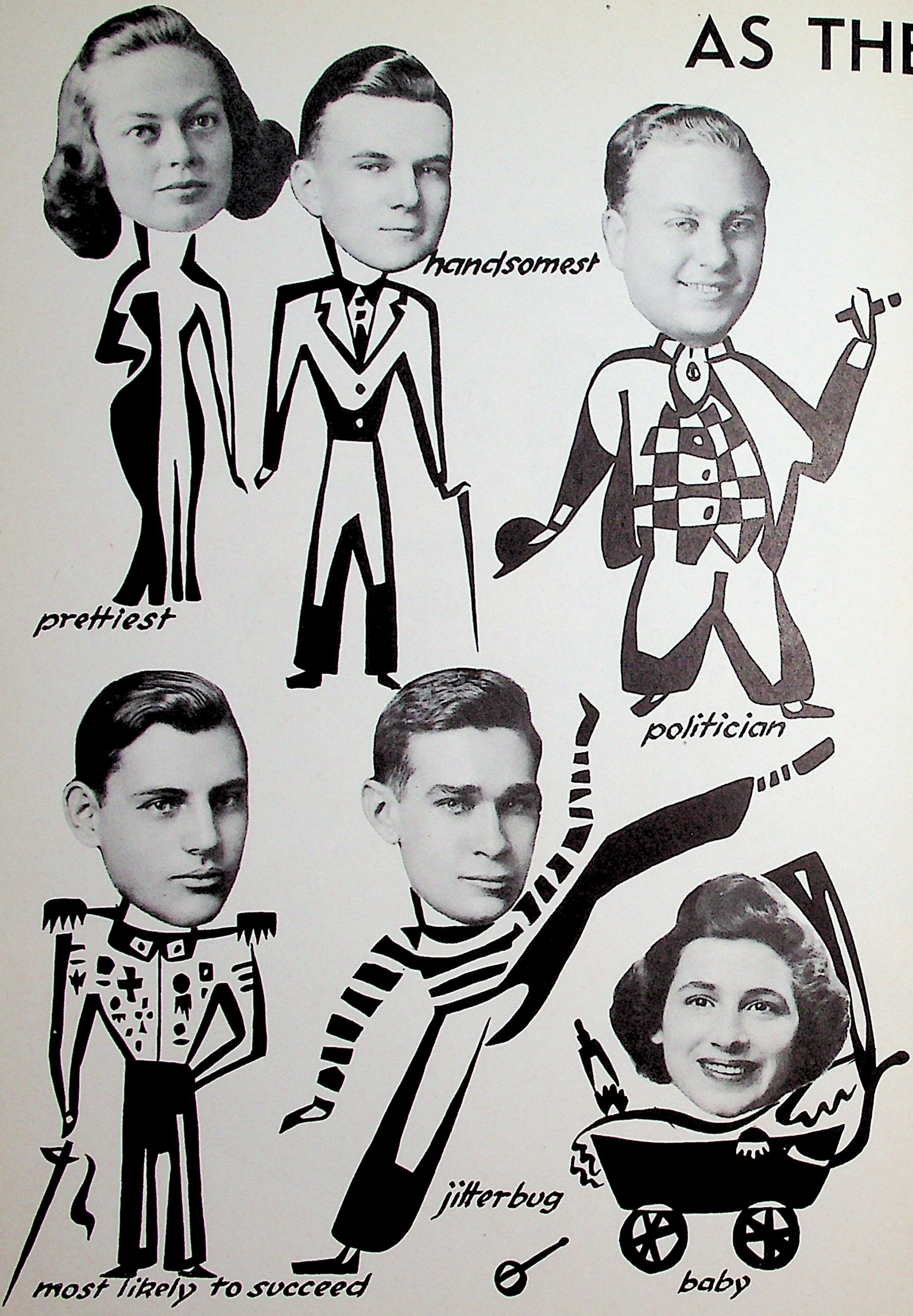
Miriam Woods—
Close to the end, as good things are,
Our little bunny hides,
Someone we know, who is never far
To all this openly confides.



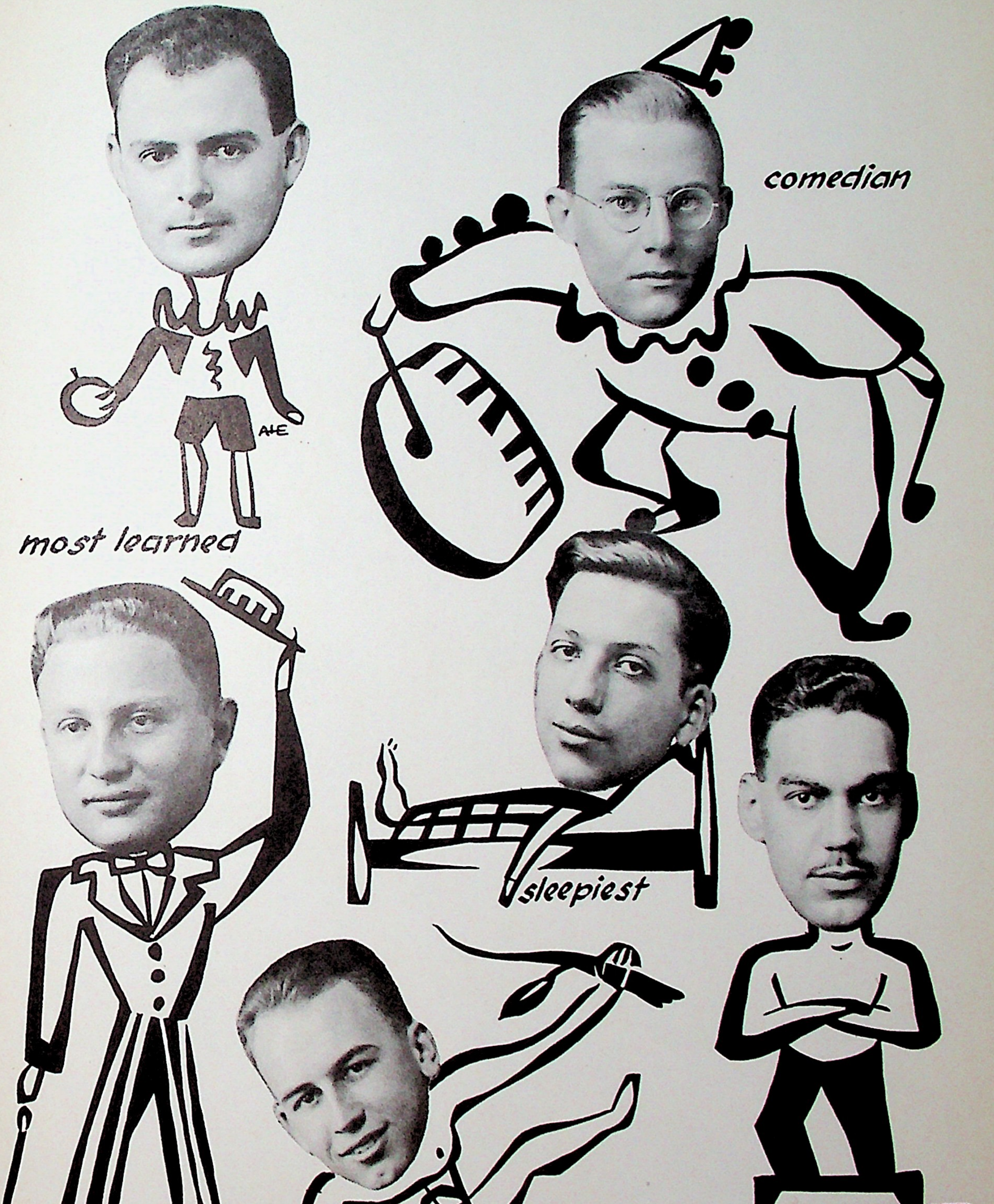
James Zucker—
Industry with eager waiting
Looks, amazed, for his design;
Hoping, hoping, breath abating
While Geddes, Teague, scared, resign.


CLASS OF 1940

AS THEY


handsomest
prettiest
politician
most likely to succeed
jitterbug
baby

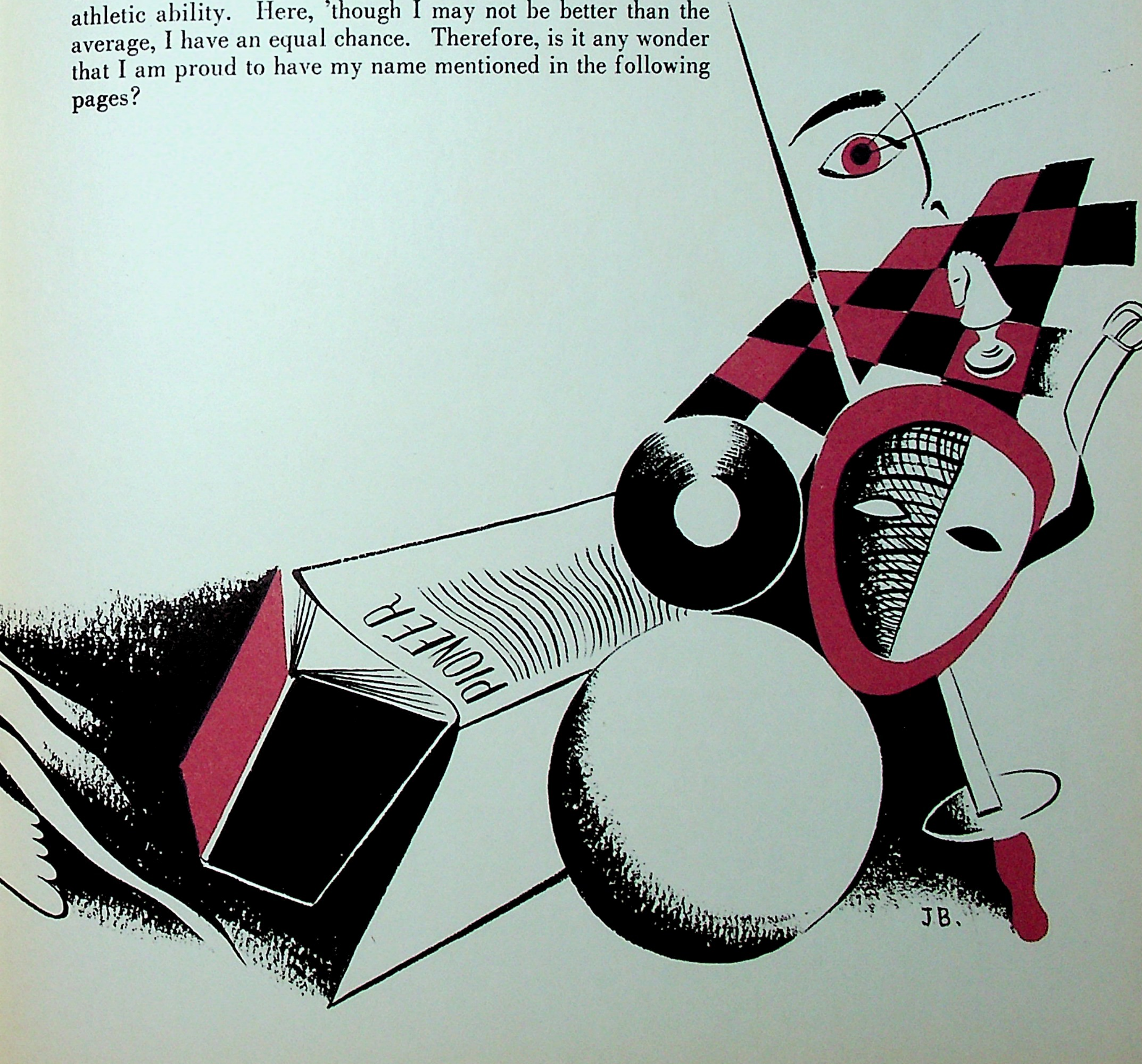
ARE KNOWN


comedian
A+E
most learned
sleepiest
best dressed
tarzan
most popular

C

I CRAVE ACTIVITY

After long hours spent in the pursuit of my studies, I desire some form or other of extra-curricular activity, be it athletics or societies or both. Here, free from the anxiety of school work, I meet my fellow students on an equal basis. Here, in a spirit of relaxation, I renew old acquaintance and make new ones. Here, in athletics, I have the opportunity to display my athletic ability. Here, 'though I may not be better than the average, I have an equal chance. Therefore, is it any wonder that I am proud to have my name mentioned in the following pages?



M
COOPER
5
COOPER
8

ATHLETICS

Do you believe in that old adage, "All work and no play makes Jack a dull boy"? Apparently you do, or at least most of your Cooper colleagues do, as one can see by the great interest taken in school sports along with other activities.

After the long day is done, Cooper students, especially, need some other form of exercise, physical instead of mental, to relieve the tension. Many turn to athletics as their pet diversion. There are a fairly good variety of sports from which one can choose a pastime. Varsity Basketball and the Rifle Team receive the support and interest of nearly every student, as well as the recently recognized Fencing Team.

Large gatherings are annually found at the Faculty All Star Softball game which is played late every spring. Waterpolo and Interclass Basketball complete the roundup of sports at The Cooper Union.

Letting these few words suffice as an introduction to athletics, we shall now take a tour of sports for the year 1940.

ATHLETIC ASSOCIATION

The Athletic Association has long been a well established and well received organization in the school. It sponsors major teams in Basketball and Rifle, the Fencing Club and inter-class teams in Basketball, Water Polo and Softball.

This year the A.A., instead of receiving financial support from the student body through the Blanket Fee, is being entirely financed by the school. It is hoped that this new policy will bring about a new and greater interest in the athletic activities at the Cooper Union.

Four home basketball games with dancing afterwards were on the A.A.'s calendar for this year. The National and American League baseball movies to be shown in March are another pleasure awaited by the Cooper student.

An indication of the recent uptrend of sports is the formation of clubs in tennis and track. The Track Club is especially active and an appeal for recognition as a club is at present being considered by the A.A. The fencing club is being considered by the A.A. as a major sport.

May we all wish the Athletic Association its most successful year; and since this appears certain, let us also give three cheers for the capable and hard working officers who have brought it about.

Standing: C. Schaffner, President.
Seated: George Clark, Secretary; William Stone, Treasurer.

C. Schaffner

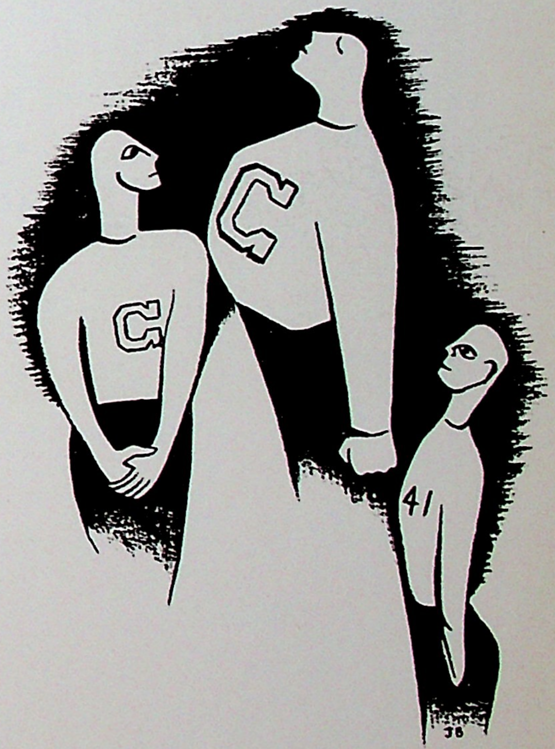
ATHLETIC AWARDS

MAJOR C

Attinson, Charles
Baum, Frederic G.
Bouma, Hessel, Jr.
Coe, Myron R.
Gardner, Charles W.
Hanft, John D.
Keary, William V.
Klamkin, Murray S.
Nagoshiner, Leon
Pavelka, Stephen
Quart, Irving
Radzka, Benjamin
Rosen, Charles A.
Sachs, Morton L.
Stephens, Charles J.
Stone, William L.
Vescuso, Anthony
Wiitanen, Henry F.

MINOR C

Czapeck, Lydia
Ferrara, Anthony C.
Garfinkle, Aaron
Heun, Gilbert A.
Karpoff, Herbert
Klamkin, Murray S.
LaSala, Anthony C.
Lewin, Joseph S.
Miller, Abraham
Rivas, Fred B.
Rolly, George P.
Ungerer, Joseph
Weinstein, Max J.



NUMERALS BASKETBALL '40

Breitman, Milton
Donnelly, Harold
Hanft, John D.
Horsting, Philip C.
Miller, Abraham
Neshin, Irving S.
Rappaport, Irving

NUMERALS WATER POLO '43

Epstein, Lawrence M.
Kramek, Stanley E.
Shifman, Joseph
Sicular, George M.
Solomon, Sidney
Weisbin, Jack
Yando, Stephen

COOPER
14
COOPER
9
COOPER
3
COOPER
7
COOPER
15
COOPER
6

BASKETBALL

With the advent of the new Athletic Policy in Cooper Union, the Basketball Team enjoyed its most successful season in the past 15 years. With Tony DePhillips, former Fordham star, coaching, the quintet evened its record at seven victories and seven defeats by trouncing Savage and Brooklyn Pharmacy. Captain Al Skorski was high scorer for the season with 153 points, while veteran Charlie Schaffner scored 126 points.

Starting the season with only three veterans and plagued by ineligibilities and injuries, Coach DePhillips somehow managed to get the team off to a fair start. After experimenting almost half the season on the two forward positions, the coach finally settled on Baum and Attison, with Bouma and Skorski at the guards and Schaffner at center. Realizing that due to limited practice facilities, teaching a complicated offense would be impossible, the coach concentrated on defense and based his offense on two or three simple plays. The wisdom of his choice was best demonstrated when the closely knit zone defense of Cooper held a powerful John Marshall team to a total of eight field goals.

The Maroon and Gold played four home games this season, winning the last three. In the Pace game at the Brooklyn Navy Yard Y.M.C.A., Cooper came from behind in the last 30 seconds of play to tie the score. After one overtime which ended in another tie, Cooper went on to win 47-44. Until that game, Cooper had been a little off in its scoring, although the zone defense was clicking. After that, Skorski and Schaffner hit their stride and the hoopsters began to roll up high scores. Baum set a new individual scoring record when he rolled up 25 points against Cathedral.

Coach DePhillips has done a fine job in developing such players as Pavelka, Bouma, Rivas, and Attinson, all of whom are playing their first year of varsity basketball. Rivas, in particular, in spite of the handicap of being only 5 feet 3 inches tall, shows great promise. Despite the loss of the two capable managers, C. A. Rosen and Irv. "Swing" Quart, we predict that next year's team will be one of the finest in Cooper Union's basketball history.

Cooper		*Opponent*
29	University of Newark	43
32	Rutger's Pharmacy	29
22	Manhattan (St. Is. Div.)	45
18	John Marshall College	28
47	Pace Institute	44
48	C.C.N.Y. Eve. (139th St.)	33
37	Wagner	47
50	Cathedral	40
38	St. John's Pharmacy	32
35	Rider College	58
31	Manhattan (St. Is.)	50
49	Hudson College	68
40	Savage	39
46	Brooklyn Pharmacy	24
522		580

RIFLE

Sidney Weniger, President; Wesley Stephens, Captain; Benjamin Radzka, Secretary-Manager.

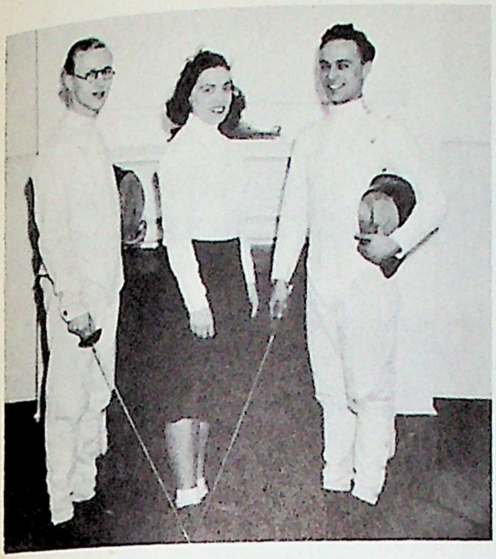
Owing to the foresight of Walter Vignini and Bernard Olcott, last year's manager and captain respectively, the Rifle Team was able to obtain the use of the Cypress Hills Rifle Range and the services of a coach. Mr. Frederick Ranke and Robert Wilkins, both Marine Corps men for the past ten years, had the task of developing Cooper's potential marksmen. As a result of this coaching, the Rifle Team is shooting a higher average than last year. The boys attribute this to Coaches Ranke's and Wilkins' patience—and their praise is justified.

The Cooper team entered the Metropolitan Rifle League and shot its way to greater heights of glory. Rifle meets were held against several colleges in other states. At the end of the first semester the records show five victories in seven meets. This is a marked improvement over 1938.

One of the surprises of the year came when Charles Stevens, Class of '42 Ch.E., shot 189 out of a possible 200 after three months training by the coaches. This is the highest score ever fired by any Cooper rifleman, and it is no wonder that we now consider Charley Stevens indispensable to the Cooper team.

Much of the credit for the year's work in the Rifle Club goes to Hank Wiitanen and Ben Radzka. Wiitanen set the ball rolling for the year's activity, but had to resign as manager after serving his team for a month. Ben Radzka continued Wiitanen's splendid work.

The team will shoot in the national collegiate matches at the Goffe Armory, New Haven, Conn. Coach Ranke expects the Rifle men to place better this year than any other year. All in all this might be considered to be a most successful season.



Ernst Juhl, Secretary; Jeanne W. Dagit, Vice-President; William V. Hollander, President.

FENCING

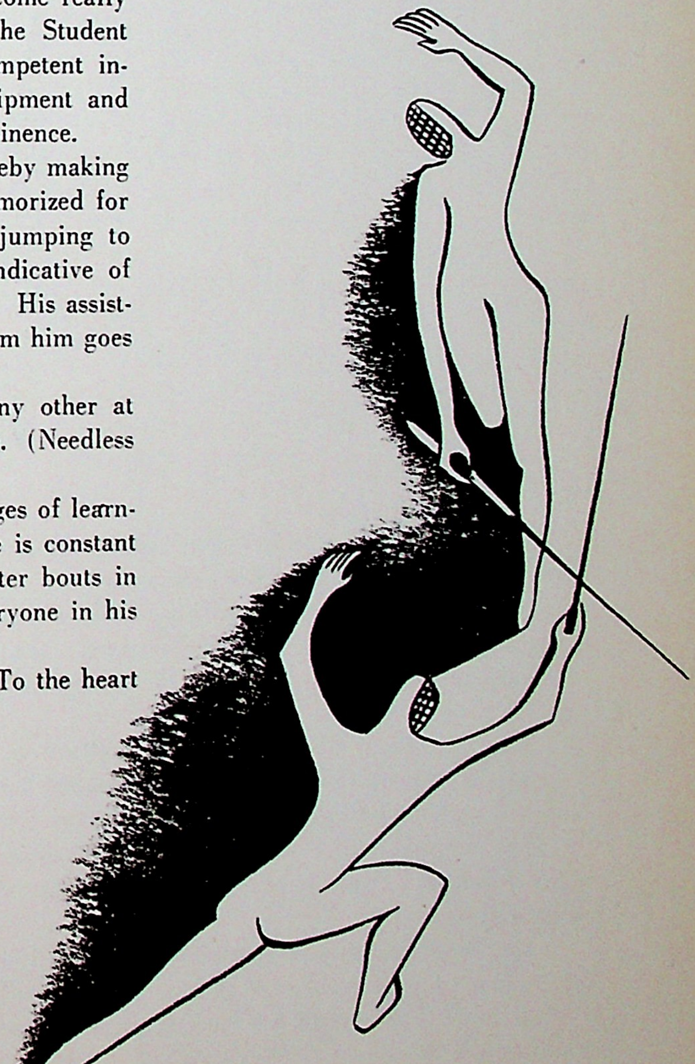
In contrast to past years, the Fencing Club has become really important this year in the sports life of Cooper. The Student Council allotment enabled our foilsmen to acquire competent instruction, and with ample fencing space, adequate equipment and athletic quality, the Cooper Fencing Team attained prominence.

Lessons are always very important in the salle, thereby making each lesson from Mr. Anton Greco something to be memorized for future reference. Fencing is the one instance where jumping to conclusions is permitted. Mr. Greco gives a lesson indicative of the co-ordinating fervor he wishes his pupils to employ. His assistant, Mr. Weber, can add skill to perfection; a lesson from him goes a long way towards making a master foilsman.

Feminine interest in this sport outdoes that in any other at Cooper Union, there being an up and coming girls team. (Needless to say, this certainly promotes the masculine interest.)

Among the newcomers who are still in the first stages of learning we have found some very good prospects and there is constant competition among the advanced students, with the latter bouts in full swing. The idea is for an individual to fence everyone in his class until he reaches his placement.

To win you strive to touch. This be our motto: "To the heart is our thrust."



WATERPOLO

As in past years the A.A. has again rented the Christadora gymnasium and swimming pool on Ninth Street and Avenue B. In this swimming pool many a fierce and bloody water polo game has been played.

So far this year few games have been played. The Frosh won from the Nite team via the forfeit route as did the Juniors from the Seniors. The Art school shellacked the Sophs by a score of 9 to 3. Last minute results show an 11 to 7 victory for the Frosh over the Art team and another Frosh win over the Sophs, 3 to 0.

The Art school displayed a strong attack in drowning "Bud" Medon's Sophs to the tune of 9 to 3. It seems as though Herr Medon's star athlete wasn't able to play (rumor says this certain athlete is bothered with foot trouble), and so the highly touted Sophs went down to ignoble defeat before the Artists.

The Seniors' 7 to 5 victory over the Frosh is under considerable debate. The Seniors, again short of men, recruited a Soph to play with them. Since the seniors won and the Frosh protest, the game will have to be replayed.

The Frosh again raised havoc with their 3 to 0 decision over the Sophs. Shifman's goal in the final minutes of play brought this game to an end with a 3 to 0 score.

At present the Frosh are leading the league in number of wins and apparently the Juniors are the only team with a chance of overtaking them. Just what the final results will be can only be surmised, but watch the Juniors.

INTRAMURAL BASKETBALL

This year's Interclass Basketball tournament started off with a bang as the hard fighting Sophs overcame an aggressive Junior team by the narrow margin of one point. The game seesawed back and forth until finally the Sophs, paced by Salowey, emerged victorious, 17-16.

The second game to be played in the tournament found the Seniors trouncing the Art School by the lopsided score of 28 to 9. Abe Miller, tournament manager, was high scorer for the day with 10 points. The high flying Sophs, winners of last year's tourney, were finally taken over by the Senior powerhouse 21 to 10.

The Juniors bounced back from their defeat by the Sophs to overpower the Frosh 32 to 18. This game was marked by a head injury to Birmingham of the Juniors near the end of the second quarter. The Juniors hit what was probably the highest team score in tournament history when they overcame the Art School 56 to 17. Every man on the Junior team scored at least 10 points in the parade of baskets.

The Seniors edged out the Juniors in a real thriller, 34 to 33. Horsting dropped in 18 points for the Seniors as Field scored 14 for the Juniors. The finishing touches were put on the tournament as the Seniors took another close game to win the tournament. This time the surprising Frosh forced the upperclassmen to go into overtime before they finally yielded.

STUDENT COUNCIL

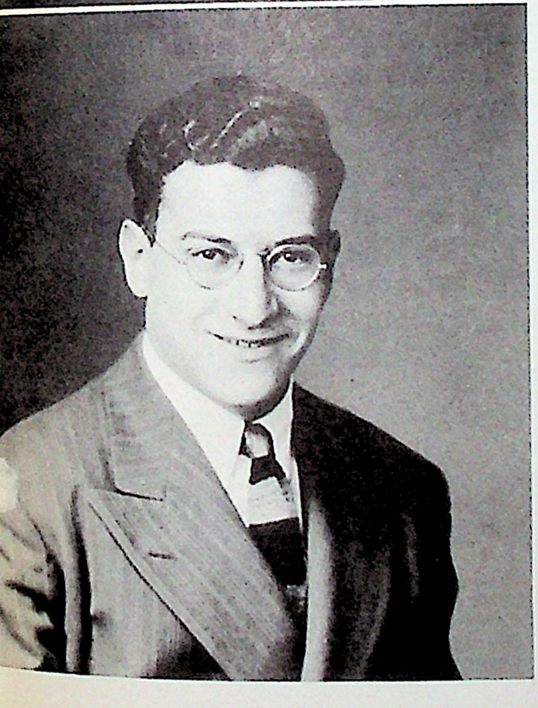
Despite the atmosphere prevailing at most meetings, the accomplishments of the General Students' Council, when viewed with the perspective lent by time, are seen to be considerable both in number and importance.

Most noteworthy of these are the ratification of the Council's constitution, the adoption of by-laws governing the functions of the elections and the Freshman Handbook Committees, the standardization of the emblem for the keys and rings of the graduating classes, and the establishment of the Peace Committee.

In a year during which half the world was at war, the Council strove to keep before the student body the various aspects of the international situation which concerned the students in general. Earlier in the year, the council had sponsored a very successful Armistice Day Peace Meeting. Some time afterward the aforementioned Peace Committee was established.

It was due mainly to the untiring efforts of Chairman George Fox and the industry of Secretary Julius Bronstein that the General Students' Council succeeded in accomplishing what it did. Professor Watson's frequent presence at Council meetings and his genuine interest in student affairs was directly responsible for a better understanding between students and faculty.

However, much still remains to be accomplished and it is hoped that the succeeding Council will continue the fine work of its predecessor.



Westley P. Stephens, Chairman.
Fred Kitty, Treasurer.

ACTIVITIES PLAN

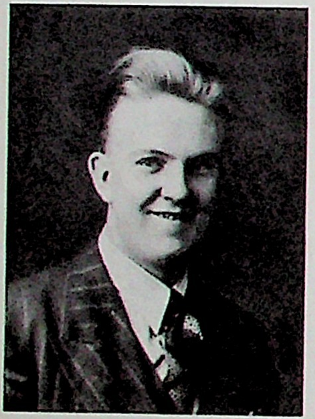
The faculty and students were particularly interested this year in the development of a completely new method of student financial control.

The new committee, led by Wesley Stephens, Chairman, and Fred Kitty, Treasurer, acting with the cooperation of selected faculty advisers, conceived, developed, and executed what has proven to be a highly successful plan and gave it its present name, The Activities Plan. Not only is this plan in keeping with the strictest policies of Peter Cooper, but in addition it adequately provides for the financial requirements of the major student activities and publications.

The excellent work of this committee, and its persistence in ironing out the thousand and one difficulties always encountered in the inauguration of a new organization, has set a fine precedent for future committees to follow.

CABLE

Frank Medon



George Everson

Hi fella! Can I do something for you? You want to join the CABLE staff? What do you wish to do? Unlike Gaul, the CABLE is divided into five parts; editorial, business, art, photo, and office work. Undecided? Well, let's take a look around and I'll show you the scenes behind the mechanics of a Yearbook.

Bud Medon, the Editor, isn't here right now, so the staff can relax a bit. Hey! who has been mixing paints in Medon's pipe? What are you trying to do, make it smell worse than it did before? You'll catch it when Bud comes back! There's June Ptacek, one of the Associate Editors, over there in her usual good humor. 'Twill be a blue moon before June ever gets angry. To look at her, you'd never think that she carried the burden of the yearbook over last summer. You see the Editor and Business Manager elected last year were balked from taking over their places by that old bugaboo—ineligibility, so June had to carry on till a new editor and business manager were elected. Talking to June is the other Associate Editor, Stew Walker. Another pipe smoker, he and Medon are always trying new kinds of tobacco and trading off to each other what they don't like themselves.

Speaking of pipe smokers, wait till George Everson, John

June Ptacek

Stewart Walker

John Brice

Dorothy Bloomfield

CABLE COPY
JB

1940

Schmitt, and Cliff Oleson get together with the other two and their pipes. The atmosphere gets so dense it looks like a smoke screen.

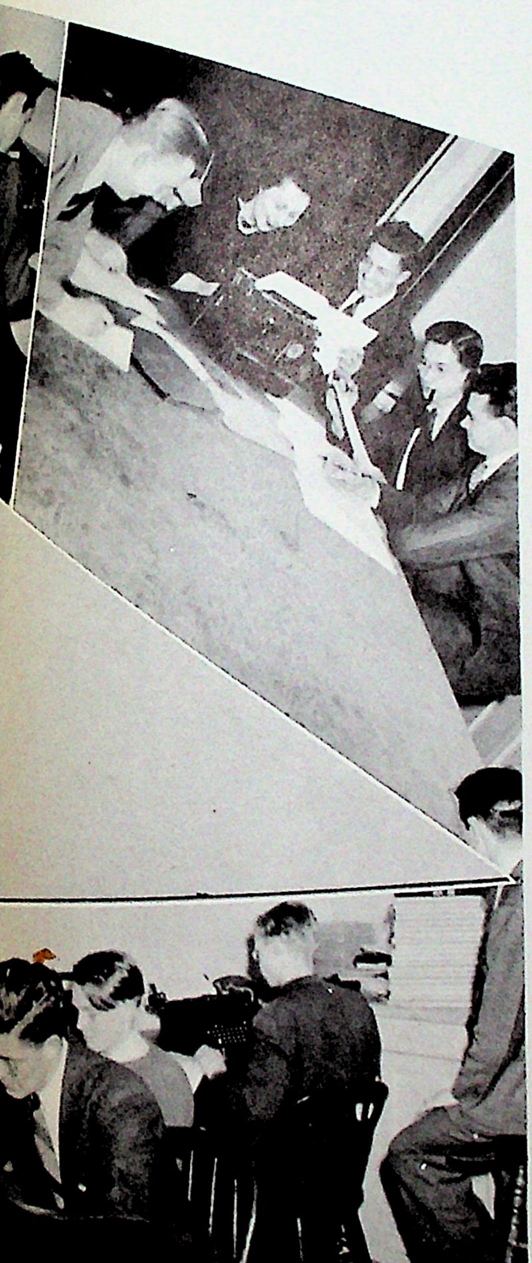
June and Stew are the heads of the editorial department. If you work here as you see Al Dunn, the Sports Editor, doing, you write, read, and edit copy. Speaking of Al Dunn, where did he just bounce off to? Another telephone call to Eleanor? Can't say that I blame him. There's George Everson —Business Manager, and head man of our financial system—over there talking to Helen. Everyone wonders how he ever does all his work. Whenever George is seen, he is usually fooling around in general horse-play, yet his books are the best the CABLE has seen in many a year. George says that the secret of his success is that he and the rest of his department, Bob Brown and Karl Rothe, make themselves general nuisances to the business executives in soliciting ads for the CABLE and in collecting back debts.

Hi, John! When did you drop in? No, Medon's not back yet. He'll be around any minute now. That was John Brice, the art man. A vile creature in the eyes of the pipe men, smoking those coffin-nails instead of a nice cozy pipe. What is Dottie laughing about? Oh, she was cutting a picture down to make a montage out of it. Well, so what? Her knife slipped and cut the head off one of the teachers. No, we can't put this in even though it does look funny. Dottie Bloomfield is our Photo Editor, working night and day

Pg. 40
Pg. 12
Pg. 34
Pg. 160
Ads
Copy
JB

Albert Dunn

John Schmitt



to get pictures suitable for reproduction. No wonder the price of glue is so high, there's more on Dot than on the pictures.

Say, J.B., that art work looks pretty good. I'll bet you worked many an hour on that sketch. Where is it going? Oh! right here on the CABLE page. Swell. We call John Brice, J.B., to distinguish him from John Schmitt. Those two fellows over there are Gene Michaels and George Clark, our photographers. It was through their work that the CABLE has as many photos as it has. Give those two cameras, subject matter, and chemicals, and watch them go to work.

No, those three fellows picking on the other three aren't bullies by nature. They're just three Greek Letter men from O.D.P. putting their pledgees through their paces. Who are they? Well, the first three are Charlie Merz, Copy Editor; John Schmitt, Publicity Manager; and Cilff Olesen, Chief of the Tabulation Department. These three and their willing (?) assistants, Charles Erway, Ray Dahl, and John Smith have the most unappreciative work to do on the CABLE. They slave away from 4:30 to 12:00 every Friday getting little glory from their positions. They only ask, out of school spirit, to do something to help put out our yearbook. For that matter all of us work for the same purpose and we're glad that we have fellows like you behind us.

All in all there's a great combination around here. When there's work to be done, we *work*. When there is no need for work, everyone turns human once again and partakes in a little horseplay. For example, the Feud between the CABLE and the Pioneer was renewed this year with vengeance. We enter their office and walk out with whatever we can lay our hands on. Then we come back to our domain and guard our spoils. The secret of our success is due to the three aforesaid men, Merz, Schmitt, and Olesen. Due to their well planned attacks and scientific retreats, we, so far, have come out ahead.

Well fella, see you later. Right now work must be done to keep the CABLE from dragging. If you came to help, just take off your coat, roll up your sleeves, and pitch in.

THE PIONEER

"Stop the presses! Stop the presses!"

A short, dynamic, light haired fellow dashes into the disorder of Popovich's Publication Press. Demon sports editor Sam Spool forgot a comma.

"No comma," says the heavy make-up man in his deep gutteral voice. "Page is finished—no more changes."

"But you must put in the comma," Ray Bendett, production manager pleads.

"No comma."

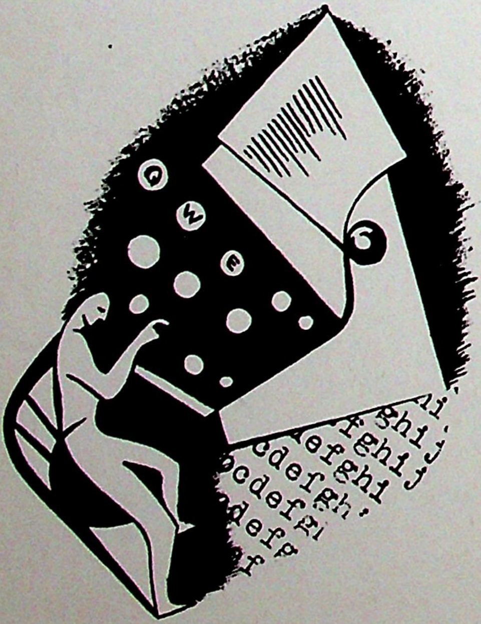
In the corner the editor is tearing his hair out, biting on a hot slug of type to quiet his nerves. "Can't you put another 'o' in 'Victorious'?" he screeches.

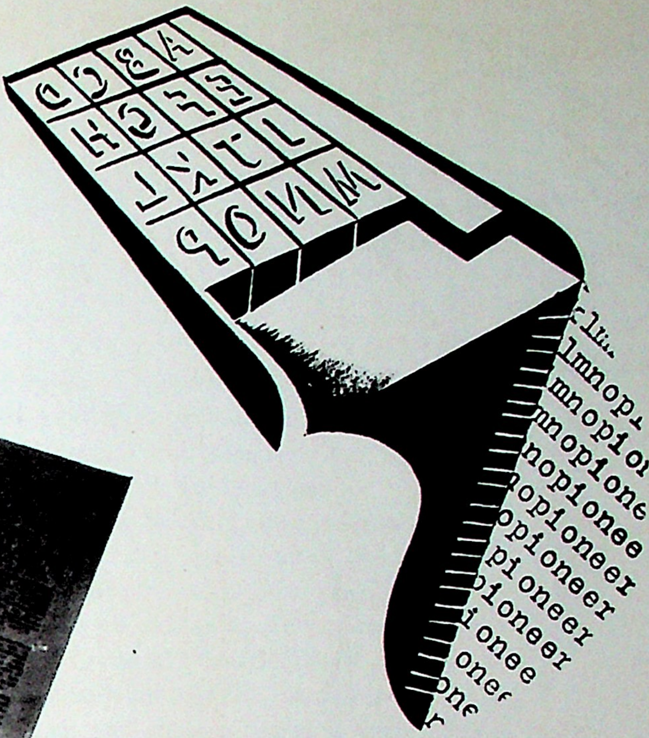
And so the PIONEER goes to press. . . .

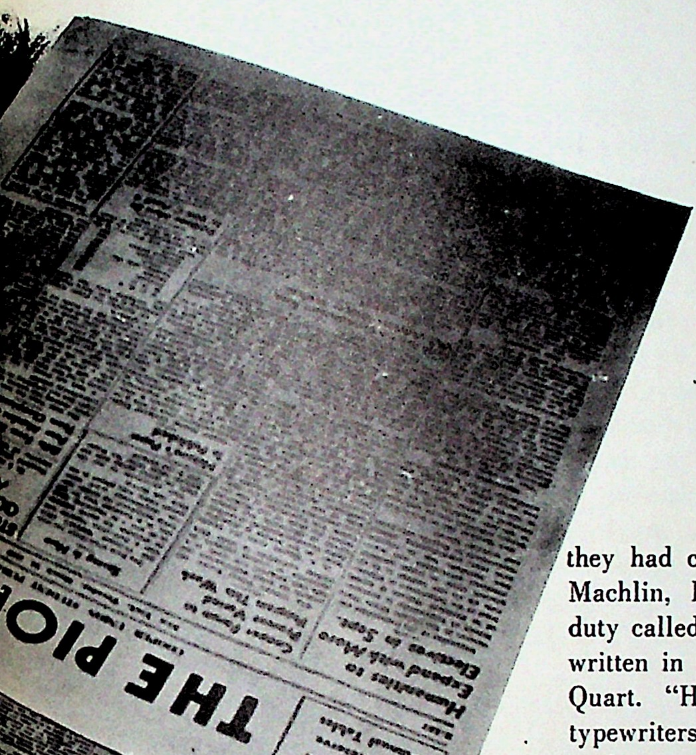
At 4:30 on the previous Friday the staff started assembling the news

THE PIONEER

STUDENT COUNCIL APPROVES
GOLD "C" AWARD CREDITS
AFTER MUCH DISCUSSION







they had collected during the week under the supervision of Irv Machlin, Editor-in-Chief, who was promoted to that job when duty called Marvin Weiss to better and bigger things. The stories, written in pencil, are handed to the domineering Copy Editor, Irv Quart. "Hey, you," he says, "type this story." The dilapidated typewriters stagger along under the finger-work of over-wrought typists.

Once typed the story is handed to Byron Cohen. "This story ain't no good," he usually says. "The English is lousy." Whereupon the page is turned over to one of the skilled rewrite editors. Smookler aids substantially in getting out good copy.

At about this time pandemonium is beginning to reign in the tiny room 114c. Typists get their elbows caught in headline writers. The Business Manager fills half the office with his bulky staff, the Copy Editor fills the other half with his. Between fifteen and twenty people are working—writing stories, headlines, typing, rewriting and editing.

In the middle of this journalistic chaos, Port, the Assoc. Editor, starts laying out the paper. "You must print my poem this week." Milton Vogel runs in with a Letter to his Great Grandfather. Morris Slotkin comes in, "What kinda cartoon you want."

"You must print my poem this week."

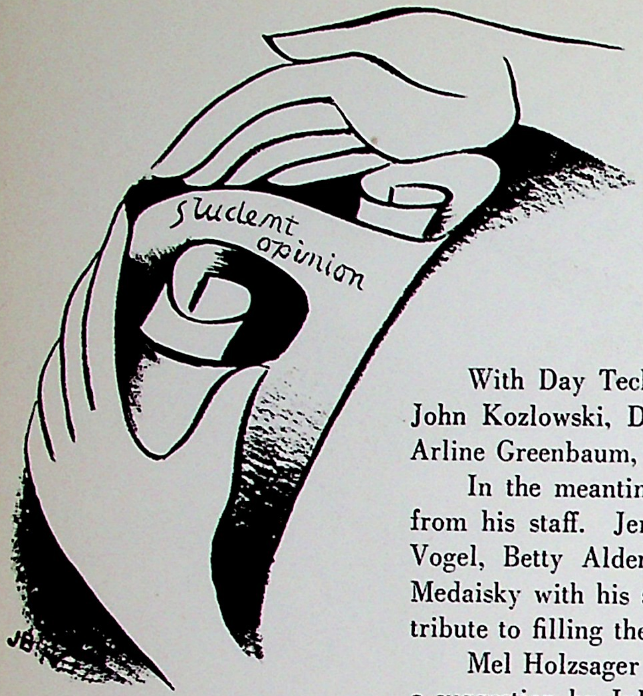
"Put Priestley on the front page."

"How many words on the Student Council story?"

"If you print my Cooper Snooper you can't cut a single word."

"Can we have 200 words for a CABLE story?"

By this time the monkey house at Central Park looks like a peaceful country scene compared to the PIONEER office.



With Day Tech News collected by John Rozolis, Night Tech News by John Kozlowski, Day Art News by Sid Gordin, and Night Art News by Arline Greenbaum, the dummy begins to take shape.

In the meantime Lerner, Feature Editor, is collecting feature material from his staff. Jerome and Abe Selman write their masterpieces; Milton Vogel, Betty Alden, Eva Namm, Mildred Gansberg, Ed Jastram, Ralph Medaisky with his sport columns, Michael Aissen with his puzzles, all contribute to filling the four to six pages of space.

Mel Holzsager and Morris Slotkin begin to wrestle with a cartoon, with a suggestion by Jules Bronstein often filling a "dead spot."

The layout is going into its second stage. The first stage was to plan a proper arrangement of material. The second stage means rearranging the layout to fit the size of the stories. The old-fashioned method of cutting and padding stories to fill the space layed out has been deserted for the modern method which abhors such prostitution of literary art. The layout must conform to the stories at hand and at the same time be dynamic, interesting and well distributed.

Demon headline writers and armchair layout men now get to work to kibitz the Editor. Milton Minneman, Sam Smookler, Norman Koretz and Rudy Bleecher all have ideas about layout and release their repressed desires in writing heads.

The paper is finished! In the wee sma' hours of the morning, only three men remain. The copy is checked and rechecked, and taken to the printer.

Monday the work starts all over again. Ray Bendett officiates at the printer's aided by proofreaders. The paper is assembled and printed. Tuesday the circulation staff gets to work—M. Slutsky and Roy Lustenader take care of the Day and Night Circulation, respectively.

The squawks start coming in.

"We want more jokes."

"You print too many jokes."

"How about a novel every week";

etc., etc., etc.

Week after week. Week after week. The pattern never varies. The procedure never changes. Ideas are changed to words; words to letters; letters to metal; metal to lines of type. A splash of molten lead and a line of type—an idea—is formed.

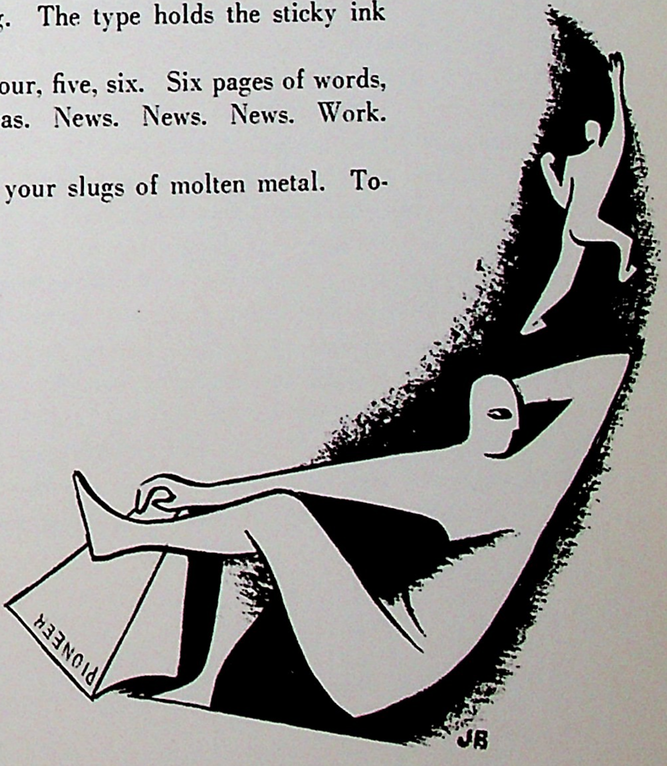
All the reader sees is black ink on white paper. He does not know the perspiration, worry and work that were expended before those black figures could be impressed on that white paper. He does not look behind the scenes where the copy readers, typists, proofreaders, reporters are laboring to create this thin, inked sheet of newsprint.

And so the presses clang, singing their rhythmic song. The pressman feeds the sheets of newsprint, joining in the rhythmic swing. The type holds the sticky ink and then gives it to the paper.

Out it comes. Out it comes. One, two, three, four, five, six. Six pages of words, sentences, paragraphs. News. News. News. Ideas. News. News. News. Work. Work. Work.

Work on ye slaves of the printed page. Make your slugs of molten metal. Tomorrow the slugs will be melted again.

But the PIONEER has gone to press. . . .



a.i.ch.e.

The various student chapters of the professional societies afford prospective engineers a means of becoming acquainted with the accomplishments and problems of engineering as carried out in the commercial fields. The Chapters also form backgrounds which aid the students in better understanding the academic courses they are studying. With these views in mind, the Day Chapter of the American Institute of Chemical Engineers was organized twelve years ago for all chemical engineering students who had successfully completed their Freshman Year.

A number of speakers, both faculty and practicing engineers, addressed the Chapter during the school year. The first speaker was our own Dr. Sherman, who gave us an inspiring talk on "Avocations,—Their Benefit to Engineers." Another guest speaker was Mr. Raymond Szymanowitz, technical director of the Acheson Colloids Corporation and instructor in the Night School, who addressed the Chapter on "Colloidal Graphite," and illustrated his talk with experiments, slides and exhibits.

According to the traditions of the A.I.Ch.E., the most important social function of the year was the "Freshman Reception." This name is somewhat of a disguise, for on the Friday before Christmas the Chem Lecture room held a capacity crowd which consisted of nearly the entire Tech School (and also a few Art School lassies). The audience enjoyed greatly the antics of the seniors; namely, Howie Ruopp and Frank Schaeffer acting as befuddled Frosh, and Jerry Friedman and Morris Slutsky acting as very superior and equally befuddled seniors working on their theses. The faculty joined in the fun and was given a friendly ribbing to the tuneful rhymes of Ernie von Storch. The show was concluded with sound movies in color, and the serving of refreshments.

Top: G. Ferrigni, Secretary; Heshin, R. Costa, M. Slutsky, Vice-President; P. Horsting, President.

Top Row: Henry Kleindienst, Secretary; Harold Nagelberg, Vice-President. *Seated*: Harold Chorney, Treasurer.

Since its reestablishment in 1936 the Night Chapter of the A.I.Ch.E. has presented each year many interesting meetings open to all who wished to attend. This past year has proven to be no exception to this young tradition.

Under the plans formulated by Ed Grohse and Harold Nagelberg of the Program Committee eight meetings were arranged for. Some of these meetings were held jointly with the Day Branch of the A.I.Ch.E. and some were held independently. Among speakers and their topics were:

Professor Weaver, '03 director of the National Brewers' Academy, who spoke on the "Chemistry of Brewing."

"Chemical Warfare" was the title of a talk by Lt.-Col. Lewis T. Latimer.

Dr. C. S. Kimball, Director of Research at Foster D. Snell, Inc., told of the "Problems Presented to a Consulting Chemical Laboratory for Solution."

Professor R. J. Kunz, counselor to the chapter, offered suggestions for more active student participation in chapter affairs, after he had outlined the purpose, history, and growth of the A.I.Ch.E. and the relations which exist between the student chapter and the parent body.

At the time this write-up goes to press there are still two more meetings arranged for.

At one, Professor Radasch, head of the Department of Chemical Engineering, is to address the members of the A.I.Ch.E. on "The Distillation of Tar and Derivative Products."

For the second meeting there is to be a showing of a motion picture, "The Manufacture of Gas," for which Dr. Stolzenbach has made arrangements with the Consolidated Edison and Gas Company.

Successful as this year has been, the Night Chapter is looking forward to an even better one next year. The Night Chapter is working on a firm foundation. Its finances are in order and membership is growing. Those who have not joined are urged to do so.

Night Chapter Officers are Ed Grohse, president; Marvin Weiss, vice-president; Harold Charney, treasurer; Henry Kleindienst, secretary; Harold Nagelberg, chairman Program Committee.

a.i.e.e.

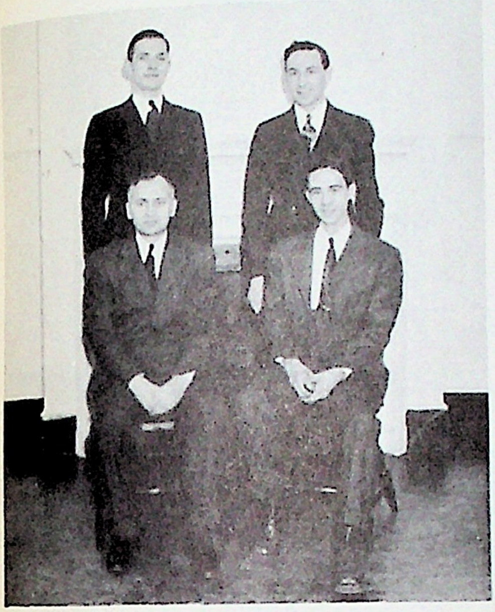
Unlike most activities the student branch of the A.I.E.E. serves an important practical purpose—to foster interest and ability in presenting student papers, and in investigating a goodly cross-section of the electrical industry.

Several fruitful visits were made on sleepy Saturday mornings to neighboring electrical plants. These included a well-attended tour to the Fire Underwriters Testing Laboratory and a thorough inspection of the Crocker-Wheeler Corporation. In the latter place the budding Electrical Engineers were shown the complete construction of large and small electrical machines from the base bolt to the last coat of varnish on the finished product. Of special interest was the simplicity of construction and operation of a coil-former which, with exasperating ease, turned out perfectly involute end-turns. The visitors' sole regret was the remarkably few young women who worked at the plant. In their meanderings through the rambling plant they discovered only one department in which ladies were working—and how they stood and admired the wonderful dexterity of their fingers—waving to them as they passed by.

At the Fire Underwriters Testing Laboratory they found ingenious makeshift devices to test all kinds of small electrical parts electrically and mechanically. It was a surprisingly small place for the amount of work done there, efficient mass-testing probably reducing greatly tedious repetitions. Several other tours are being planned and a project is under way to combine Power Plant Inspection with the electrical survey.

The annual A.I.E.E. Student Branch Convention will take place in April with Pratt Institute acting as host. The Cooper E.E.'s hope to be right there with the best of them in the presentation of student papers.

Top Row: Ernest Thalmann, Secretary; John Papamarcos, Treasurer. *Bottom Row*: Milton Tenzer, President; Charles Rosen, Vice-President.



Top Row: Oscar Kummer, President; Samuel Gilman, Vice-President. *Bottom Row*: Alfred Hasselbach, Treasurer; Vincent Petrucelly.
3rd & 4th Year Art Officers

The student night branch of the A.I.E.E. was created primarily to provide its members with an opportunity for gaining experience in the art of public speaking. Almost all meetings are devoted to lectures made by the members of the branch. After each lecture, questions raised on the floor are answered by the student lecturer, so that each speaker must know his subject and be able to present it clearly and forcefully. His topic must not be so abstruse, or complex, as to require more than the one hour usually allotted, and it must not be so simple and elementary as to be uninteresting.

Thus is can be seen that much is demanded: conciseness, clarity, forcefulness and confidence, the last being achieved through a thorough knowledge of the subject. As a corollary to this, the lecturer must gage the subject-knowledge of his audience, so that he will know what points to stress and what to minimize.

In these ways the future engineer is given a chance to develop the ability to think while facing an audience and so gain self-assurance and poise no matter what the situation—qualities which make for the successful man.

This year, upon the suggestion of the vice-president, Mr. Gilman, the program was arranged so that some non-technical, as well as technical subjects were presented, in conformity with the present trend towards liberalizing an engineer's education.

The officers, Student Night Branch, A.I.E.E., are: O. Kummer, president; S. Gilman, vice-president; V. Petrucelly, Jr., secretary; A. Hasselbach, treasurer.

a.s.c.e.

The Constitution of the Cooper Union Student Chapter of the American Society of Civil Engineers states that the object of the Chapter "shall be to promote and further the interest and standing of its members in the engineering profession and to develop a spirit of cooperative service in professional, civil and social life for the good of all." With this fine thought in mind, and with the amiable guidance of Professor Brumfield, the officers strive to give the members a rounded program of meetings and inspection trips.

The members, comprising close to 100% of the C.E. student body, enjoyed the reminiscences of Mr. C. E. Covert of the W. & L. E. Gurley Co., who told of stream gaging long years ago in Alaska and the "half-pint cup filled with two quarts of mosquitoes." They saw Board of Water Supply Engineer Nowaczek's films, candidly taken during construction of the huge new Delaware Aqueduct; films too from the T.V.A. and on the manufacture of wrought iron. Mr. Paul Robbins, popular member of the faculty, lectured on the complex topic of Aerial Photogrammetry. Inspection trips included a visit to cut-and-cover subway tunneling in Brooklyn, a 90-mile tour of New York's highway system, a stroll under the East River through the partially completed Queens-Midtown Tunnel.

As the year draws toward an end, the officers are looking forward to the plans for the annual dinner to be held after school closes in May. Here the faculty have a chance to hob-nob with the students without getting chalk dust on their sleeves; here, the seniors bid a misty farewell to Cooper; and here the students find the faculty are "regular fellers."

In the progressive strides that the C.E. Department, led by Professor E. S. Sheiry, has made this year, the Chapter feels honored to have done its part.

Officers: President, John D. Hanft; Vice-President, Hyman Sigman; Secretary, Sidney Weniger; Treasurer, John C. Hagedorn; Representatives to Conferences, Bernard M. Center, Louis J. Thaisz. Faculty Adviser, Ray C. Brumfield.

Top: J. Hanft, President; L. Thaiz, Student Representative. *Bottom*: J. Hagedorn, Treasurer; S. Weniger, Secretary.

Top Row: John Dishuck, Vice-President; James Doyle, Treasurer; Phil Hagerty, President. *Seated*: Ernest Lucken, Secretary; Joseph Corrigan.

a.s.m.e.

The curriculum of the mechanical engineering course commands nearly all of the student's time, yet the student recognizes that he cannot limit himself to the classroom but must come into contact with the practical aspects of engineering as well. This is largely accomplished between six and seven o'clock in the evening by participation in the meetings of the night school branch of the A.S.M.E., the membership of which rose to 125 during the past year, establishing it as one of the largest in the country.

The criterion of activity is the bulletin board. The branch has practically put the art school on a poster production basis. Indications are that the bulletin board may have to be supplemented with a special A.S.M.E. board. Papers and motion pictures presented by invitation speakers have been diverse indeed. Such diversity is typical of the field of mechanical engineering.

During the school year it is difficult for the night school men to make plant inspection trips, because of the arduous school schedule; many of the members visit plants during the summer months. However this year, two trips were made, to the Pity Foundry Co., Brooklyn, and the Jersey City Works of the M. W. Kellogg Co. At the Pity Foundry with the plant running on regular schedule, the complete process of making a casting, from the scraps and pig iron charge, to the finished product, was witnessed. The visit to the Kellogg Co. was an unusually fine one, since Mr. J. F. Bechtle, the conductor of the tour, had presented a paper at the school meeting a few weeks prior.

ARTIST AFFAIRS

"There'll be a hot time in the old town tonight."

Peace, folks, it's wonderful! That mad, merry, super-colossal fun-fest is over but not forgotten! It was sponsored by the Third Year Day Art School, the proceeds to go to some non-partisan refugee fund. It was a solid success!

There were long and elaborate preparations for it—every one with a job knew exactly what to do and when to do it—and it was on everybody's tongue six weeks before the event because of the excellent publicity. Sid Gordin was the organizer "extra-ordinnaire" who insured a completely smooth program without last minute hitches. Immediately under Sid were Jean Wong and Jay Brice as secretary and treasurer, respectively, and they had their special force of ticket sellers. The entertainment committee was headed by Clinton Macauley, who wrote and directed that mad play, *Schlemdali.* Dan Shapiro was overseer for the Ballet scene and the Pygmalion skit (with a little off-the-record em-ceeing). Anthony Loscalzo and George Hill and an oversized crew of third year students decorated anything and everything on the sixth floor. Goons, mice, cracks in the walls, and special reproductions of famous paintings shot out of the walls from all angles. The refreshment committee headed by Doris Rubenfeld served "les dogges hotes" and "le poppe colde." Helen Bott sprinkled sauerkraut, Natalie Zimmer served sizzlers, and Lydia Czpeck shoved straws.

The "piece de resistance" was set in a Parisian cellar with Clint (Schlemdali) Macauley forgetting to pull his punches when Annette (Maise) Kellman sidled in professionally, ordered a snifter, and attempted a smoldering pick-up. There was the snooping, singing waiter, Tony (Colonna) Loscalzo, and the pretty-boy henchman, George Hill, with his sweet young thing (moll), Barbara Snyder. Mae Cooper played Galeta to an asthmatic Pygmalion and it was a gem. Irving Sabo did some

panic-producing pantomimes and then went into his dance. The Ballet featured Pavlowa and Nijinsky riding the four winds with enticing celery, soul-lifting gyrations, and a salt cellar that worked. The William Tell Overture was their inspiration. Jim Priest was the center of musical attractions with his hep-cats, even with Goodman, Shaw, and Miller on the platters. The music was hot and loud, the students in the groove.

There really was a hot time in the old town that night!

The third year sat cooling their heels and along came the freshmen with a corkin' affair. It was a SADIE HAWKINS PARTY. Girls could chase, wrestle, and even shoot anything that resembled a male. Jim Priest and his hot-shots warmed up the back-woods with "city slicker music." Then Sadie (Arthur Deshaies) Hawkins waltzed in like Mrs. O'Leary's cow. She grabbed the nearest man—that was Tony Loscalzo with "rum perfume" on his dude clothes. With a slip, slide, and a twenty yard dash, down the dance floor flew Sadie. (Non-habit-forming, wasn't it?) An orgy on the modern dance!

Murry (Mike) Spitzer, who was engineering the whole party, had a hard time keeping out of the female clutches. Clint Macauley, after writing and directing the entertainment for this jamboree, was in need of some relaxation. He grabbed himself a gal, Doris Rubenfeld, and the two sure did hot-foot a Virginia Reel. Before long three groups of hillbillies were "out of this world." Muriel (Cora Sue) Mayo was right nice about serving refreshments to the guests—hot dogs and Coca-Cola (no spirits) went from hand to mouth. Sam (Jughaid) Fischer took the spotlight and did some dang clever character sketches.

Sadie Hawkins got her man but it was all a dream. When she did have him, Shirley (Francie) Sherker threw glances and Irwin (Rudolph) Luckman, bridegroom-to-be, melted away. A woeful tale. Everyone had a good time anyway.

DANCING CLUB

It sure looks like it—looks like what?—it sure looks like swing is here to stay! These Cooper swingies can't be wrong—you're right, that's right, the Cooper Union Dancing Club is more popular than ever before. Meeting every Thursday at 4:30 and sending solid till 6:30, we seem to get bigger and better as we go along.

The officers this year were unanimously elected. The very able President and Vice-President are the Misses Eleanor Eller and June Ptacek, and theirs was the pleasant (or otherwise) duty of instructing our beginners—usually engineers, to dance. (Don't get the wrong idea, though, they aren't so bad!) The Treasurer, whose pleasant duty it is to dispense with the shekels and just enjoy himself generally by dancing, is Andrew Ross.

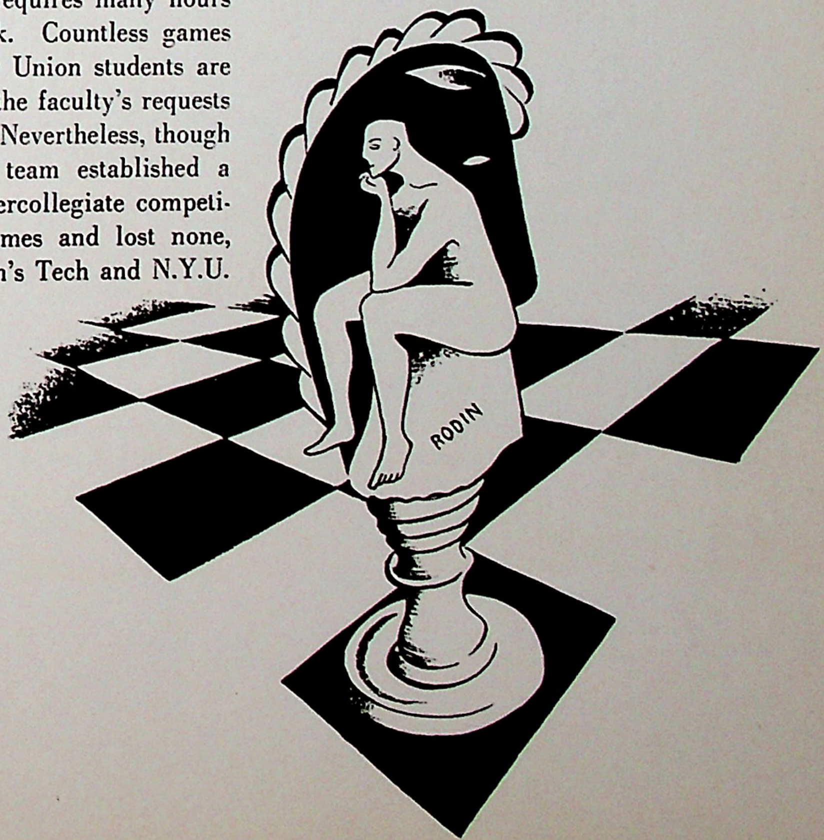
Perhaps it can be explained by cycles—but maybe the popularity of the Dance Club this year is due in great part to the injection of a bevy of really delightful female terpsichorean freshmen in the Art School into the blood stream of Cooper Union. The fact that the gals showed up regularly, though, must be traced to the fact that they enjoyed their dancing partners—so hats off to the engineers!

As long as everyone has fun—that's all we want to see—and that's really all we saw. So here's to bigger and better dance club meetings and now—okay chillun—YESZ DANCE!

CHESS CLUB

The Chess Club originally had its primary inception some fifteen or twenty years ago. However it did not fare so well and eventually disbanded. Last year some ardent chess enthusiasts decided that amongst the Cooper intellectuals there were surely a sufficient number of geniuses to make possible the reorganization of the Chess Club and a varsity chess team for intercollegiate competition. So there came about the reformation of the club. At first the playing of chess was restricted solely to chess meetings. But the craze for this new plaything became so wide spread that the club finally heeded the requests of the students, especially those who had plenty of leisure time, and placed a set in the library.

To become a really good player requires many hours of concentration and study every week. Countless games must be played and analyzed. Cooper Union students are generally kept pretty well occupied by the faculty's requests for homework, laboratory reports, etc. Nevertheless, though suffering under these handicaps, the team established a splendid record in its first year of intercollegiate competition. In 1939-40 they won seven games and lost none, numbering amongst their victims Steven's Tech and N.Y.U.



CAMERA CLUB

No Picture Available

Carrying on from where the program ended last year, the Cooper Union Camera Club completed the second year of its existence as a recognized club under the Activities Plan. With its timely and interesting lectures and print shows, together with the use of the small dark room on the second floor of the Hewitt building, the members were not only able to recognize the finer points of photography, but were also given the opportunity to develop their own technique in that light-tight rendezvous of the amateur photographer.

The first semester wasn't two weeks old when the initial meeting of the year was held. Of first importance was the election of officers, as follows: President, George Kline; Vice-President, Cyrus Zeff; Secretary, Paul Bobay; and the appointment of several committees to aid in the operations of the club. The club was fortunate in obtaining the services of Mr. Perez, instructor of the Civil Engineering staff, and an amateur in good standing. His guidance and ideas helped smooth out the functioning of the club. An industrious program for the year was mapped out which included talks and demonstrations by well-known photographers, print shows from other clubs and active participation in print contests.

Making full use of its allotment, the club joined the Metropolitan Camera Club Council. Membership in the council enabled the club to obtain speakers, print shows and permission to enter the print show contests of the Photographic Society of America, which is affiliated with the council.

Because of the increasing popularity of the club by means of the Pioneer and the bulletin boards where prints were displayed, the active membership rose over that of the preceding year, so that the competition was keen among the members. The lectures by outside men were stimulating and provided the members with new ideas in photography. One of the most interesting lectures was that on the making of paper negatives and the retouching of these to bring out highlights and hide defects. Excellent results followed. By means of the technique, composition and good photography seen at the lectures and shows, the members were encouraged to show their accomplishments at exhibitions.

DRAMATIC CLUB

The Dramatic Club, for the first time under school board control, opened with plans for a constitution. The Board allowed the group a liberal appropriation, and appointed Professor Lynch faculty adviser, and Mr. Childs director.

The first two productions, "Aid Raid" and "Trifles," both one-acters, failed to line up to the former Cooper productions, "Pillars of Society," "Monkey House," "Ile," and "Goodnight, Please." Although "Air Raid" was well staged, with abstract sets, the audience failed to react to the MacLeish lines. Next the group showed the old Lon Chaney film, the "Phantom of the Opera," which was thoroughly enjoyed.

A cast of seventeen, as this goes to press, is rehearsing "Calling All Stars," by Clinton Macaulay. This is the first student play to be presented by the group, and is a three-act farce-comedy. Since this play was written by a student, and will be acted by them, it will really be Cooper's own. The cast includes Annette Kellmann, Clinton Macaulay, Anthony Loscalzo, Virginia Jackson, Charles Meyerson, Zana Mott, Doris Rubenfeld, Irwin Luckman, Shirley Sherker, Paul Kaufman, Arthur Deshaies, Jack Ross, Howard Goldgraber, Edward Jastram, George Pichow, Betty Alden, and Joe Dunefsky.

Last year's "Pillars of Society" was enlivened by the unexpected appearance of the Cooper cat, who has not felt the urge to emote this season. However, "Calling All Stars" is coming, and who knows?

H. Collins, President; A. Kellman, Secretary-Treasurer; L. Fried, Stage Manager.

MATH CLUB

The year of 1939 has proved to be a banner year in the history of the Mathematics Club of the Day Tech. The activities of the club were crowned with unusual success. The cooperation of the members contributed greatly in making the meetings a center of interest and attention. The same spirit and ambition was responsible for the success of the Math Teams sponsored by the organization.

Cooper Union's "mathematicians" had experienced the busiest period during the spring of this year. In March a team composed of Ted Berlin, Benjamin Lax and Stan Manson represented the school in the annual William Lowell Putnam Mathematics Competition. This group received honorary mention. They ranked among the first six of all those competing from the United States and Canada. Ted Berlin and Benjamin Lax also received honorary mention for individual efforts. Within one month, two groups of seven students each participated in the annual Metropolitan Competition held at Brooklyn College. This time the first team succeeded in obtaining a second leg on the plaque now located in our Math Office. The second team ranked third in this contest. Individual honors went to Stan Manson, who tied two opponents for first place.

The meetings in the spring of 1939 featured Ted Berlin and Benjamin Lax as its guest speakers. The former spoke on "Surfaces of Revolution," and the latter on "Method of Differences." This series of lectures continued in the fall with Ben Lewis speaking on "The Slide Rule," Stan Manson on "Difference Equations," and Marvin Weiss on "Introduction to Relativity." A lecture on the Isograph prepared by the Bell Telephone Company proved to be the highlight of these meetings. This was supplemented by films and slides illustrating the operation of this machine.

The Freshman Slide Rule Prize and the Calculus medal were awarded to Philip Kass and Stan Manson, respectively.

B. Lax, President; S. Manson, Vice-President; T. Gold, Secretary.

NEWMAN CLUB

Top Row: John Harrington, President; William Keary, Vice-President. *Bottom Row*: Casimir V. Cichoski, Recording Secretary; Walter T. Koroshetz, Treasurer.

The Newman Club is an important part of the school life of every Catholic student. It is a club of Catholic culture and Catholic fellowship, organized in non-Catholic colleges and universities of the United States, Canada, Puerto Rico, and Hawaii.

The first Newman Club was formed at the University of Pennsylvania in 1893. At the present time there are over 250 Newman Clubs throughout America. These clubs are joined together in an international organization called the Newman Club Federation.

To facilitate the work of the Federation, Provinces have been organized in the different sections of the country. We of Cooper Union Newman Club are fortunate in being a part of the New York Province which, because of the proximity of the Colleges and Universities and the large membership, is easily the most active Province of the Federation. The club presents to the student an excellent means of meeting others whose interests and ideals fall in the same general class.

Because of this spirit of Catholic fellowship, every meeting turns out to be more enjoyable and interesting than the last and those friendships which are naturally formed between people possessing the same ideals are continually strengthened.

PRIESTLY

SOCIETY

The Priestley Technical Society was organized in 1937 by a group of engineering students who felt that an education in social and engineering matters lying outside the curriculum was vital to the student. They also felt that some participation in social activities would benefit the individual when the time came for the Cooper Union to present him to the world.

The program for the broadening of the social life of the Cooper student was not as completely carried out, due to the apparent resignation of most of the students to four years of "social outcast-dom" behind their slide-rules. In spite of this tendency, the P.T.S. conducted several bowling parties in conjunction with the faculty. These parties were originally scheduled as out-and-out faculty vs. student contests, but out of consideration for the faculty, all reports of the scores were prohibited. Plans have been made for the presentation of films on educational and other topics, and a theatre party and a boat ride are being arranged for the coming spring.

Much of the success of the society can be attributed directly to the unselfish cooperation of the faculty adviser, Dr. Sherman, who contributed freely of his time and energy in helping the society establish itself as a liberal organization.

HONOR AWARDS

SILVER C AWARDS

George A. Fox
Max W. Strauss

GOLD C AWARDS

Ray Bendett
Dorothy V. Bloomfield
Julius Bronstein
Harold Collins
Lester Fried
Norman Harris
Edwin Jastram
Paul Kaufman
Fred Kitty
Murray L. Klampkin
John J. Kozlowski
Clinton J. Macaulay
Irving Machlin
Francis E. Medon
June R. Ptacek
Irving Quart
Samuel Rabinowitz
Charles A. Rosen
George P. Rolly
John Rozaliz
Doris Rubenfeld
Edwin Schaffer
Charles E. Schaffner
Samuel Spool
Wesley Stephens
William L. Stone

EX POST FACTO AWARDS

John Brice
Charles Merz
John Schmitt
George Everson
June Ptacek
Stewart Walker

LAMBDA TAU AWARDS

Samuel Spool
John Rozolis
Irving Quart
Morris Slutsky
Betty Alden

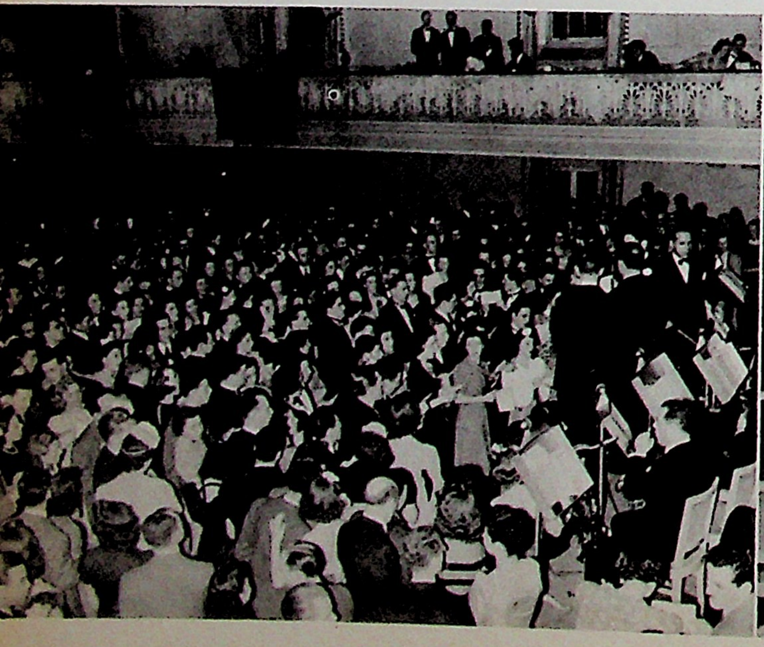
ANNUAL DANCE

One affair during the school year that affords both faculty and students the chance to relax and enjoy themselves is the Annual Dance. This year, as in past years, the Dance was a big success, mainly because of the untiring and unselfish efforts of the members of the Annual Dance committee. We wish to take this opportunity to thank each and every member for his sacrifice of time and energy in helping to make the affair the success it was, especially Ed Schaffer, Julie Bronstein, Ernest Costa, June Ptacek, John Koslowski, George Everson, Bob Brown, Betty Alden, Max Stauss, Betty Rosenberg, and Paul Kaufman.

This year the school was fortunate in obtaining a very good orchestra. After auditioning several other orchestras, and considerable deliberation, the Committee selected Joe Moss' orchestra, which proved to be an excellent choice. The orchestra showed itself capable of playing a wide variety of tunes in various tempos which ranged from the hottest jazz, through La Conga, and down to the smooth waltz. Songs were rendered by two vocalists. The Committee also deserves praise on the selection of the Ballroom. There was plenty of space available for dancing, and a large number of tables, which were used to their utmost capacity.

The most outstanding feature of the Annual Dance was the introduction of the winning school song. The orchestra played the melody twice and then the whole assemblage joined in the singing. The song was received with a tremendous ovation.

The student body as a whole made a very fine showing. School spirit permeated the entire place. The frequent singing of the school song, a spirit of friendly cooperation, and the good time enjoyed by all proved conclusively that the Cooper Union student body fully appreciated the efforts of the committee, and also attempted to do their best to make it a success.



The faculty members also enjoyed the evening. Some of the members present were: Mr. Bowman of the Humanities Department, with Miss Enge, and Professor Roemmele of the Mechanical Engineering Department. We also welcomed the presence of Mr. Weber, a Cooper graduate who taught last year in the Physics Department.

Fraternities, societies, THE CABLE and *Pioneer* staffs turned out in full force that evening. Our editor Bud Medon whose appearance was further enhanced by lovely Mary Newman, came in tails. The other members of the staff joined in the fun and helped make the CABLE table a hum of activity. Some others contributing to the jovial atmosphere were June Ptacek and Ernest Costa, Dorothy Bloomfield and Cliff Oleson and John Schmitt and Frances Kensler.

The activity of this particular table was increased due to the presence of a number of O.D.P. men, who added much to the gay spirit of the evening.

George Everson and Bob Brown, from all outward appearances, were having a spirited time. Other fraters having an equally enjoyable evening were Utah Rowley, accompanied by Eleanor Eller, Karl Rothe and Agnes Schnakenberg, Charles Schaffner, Charles Rohrs, and many others. Gene Michaels also joined in the fun after taking numerous pictures.

The *Pioneer* table was occupied to the utmost capacity. The frivolous spirit prevelant in the *Pioneer* office seems to have carried bodily to the Annual Dance. Those mainly responsible for this spirit were Sam Spool, Irv Quart, Max Strauss, Julius Port and Irv Machlin.

In general all those present enjoyed themselves considerably and thank the Annual Dance Committee for giving us this splendid opportunity to join in the gaiety of the evening.

ANNUAL DANCE

One affair during the school year that affords both faculty and students the chance to relax and enjoy themselves is the Annual Dance. This year, as in past years, the Dance was a big success, mainly because of the untiring and unselfish efforts of the members of the Annual Dance committee. We wish to take this opportunity to thank each and every member for his sacrifice of time and energy in helping to make the affair the success it was, especially Ed Schaffer, Julie Bronstein, Ernest Costa, June Ptacek, John Koslowski, George Everson, Bob Brown, Betty Alden, Max Stauss, Betty Rosenberg, and Paul Kaufman.

This year the school was fortunate in obtaining a very good orchestra. After auditioning several other orchestras, and considerable deliberation, the Committee selected Joe Moss' orchestra, which proved to be an excellent choice. The orchestra showed itself capable of playing a wide variety of tunes in various tempos which ranged from the hottest jazz, through La Conga, and down to the smooth waltz. Songs were rendered by two vocalists. The Committee also deserves praise on the selection of the Ballroom. There was plenty of space available for dancing, and a large number of tables, which were used to their utmost capacity.

The most outstanding feature of the Annual Dance was the introduction of the winning school song. The orchestra played the melody twice and then the whole assemblage joined in the singing. The song was received with a tremendous ovation.

The student body as a whole made a very fine showing. School spirit permeated the entire place. The frequent singing of the school song, a spirit of friendly cooperation, and the good time enjoyed by all proved conclusively that the Cooper Union student body fully appreciated the efforts of the committee, and also attempted to do their best to make it a success.

The faculty members also enjoyed the evening. Some of the members present were: Mr. Bowman of the Humanities Department, with Miss Enge, and Professor Roemmele of the Mechanical Engineering Department. We also welcomed the presence of Mr. Weber, a Cooper graduate who taught last year in the Physics Department.

Fraternities, societies, THE CABLE and *Pioneer* staffs turned out in full force that evening. Our editor Bud Medon whose appearance was further enhanced by lovely Mary Newman, came in tails. The other members of the staff joined in the fun and helped make the CABLE table a hum of activity. Some others contributing to the jovial atmosphere were June Ptacek and Ernest Costa, Dorothy Bloomfield and Cliff Oleson and John Schmitt and Frances Kensler.

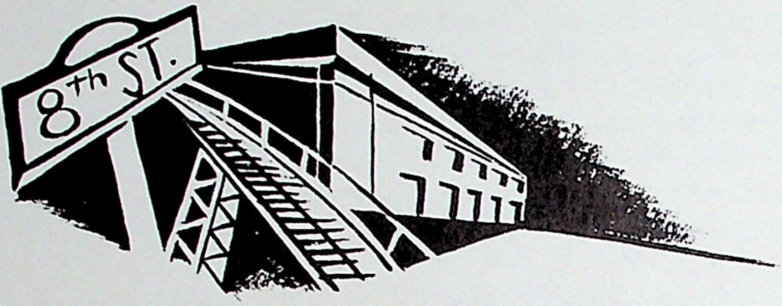
The activity of this particular table was increased due to the presence of a number of O.D.P. men, who added much to the gay spirit of the evening.

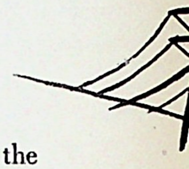
George Everson and Bob Brown, from all outward appearances, were having a spirited time. Other fraters having an equally enjoyable evening were Utah Rowley. accompanied by Eleanor Eller, Karl Rothe and Agnes Schnakenberg, Charles Schaffner, Charles Rohrs, and many others. Gene Michaels also joined in the fun after taking numerous pictures.

The *Pioneer* table was occupied to the utmost capacity. The frivolous spirit prevelant in the *Pioneer* office seems to have carried bodily to the Annual Dance. Those mainly responsible for this spirit were Sam Spool, Irv Quart, Max Strauss, Julius Port and Irv Machlin.

In general all those present enjoyed themselves considerably and thank the Annual Dance Committee for giving us this splendid opportunity to join in the gaiety of the evening.

GREEN ENGINEERING





The student's dream come true! For years the engineering students of the Cooper Union have been obliged to learn the art of Surveying by setting up their instruments and running their lines in Central Park, in the absence of an engineering camp of the kind enjoyed by many universities and other institutions of learning. While thusly occupied, they prayed that the day would soon come when they could have a camp of their own. Nor was their prayer in vain. During the past year Norvin H. Green, great-grandson of Peter Cooper, gave nearly 150 acres of the old Hewitt Farm in the Ramapo Mountains to the Cooper Union for an engineering camp.

This gift was made by Mr. Green in memory of his mother, Amy Hewitt Green, whose father Abram S. Hewitt was son-in-law of Peter Cooper.

Green Engineering Camp, as the institution is to be known, fulfills the school's requirements ideally. Its site offers adequate housing, almost every kind of terrain, mineralogical deposits of wide variety and short, easy transportation to New York City.

Dr. Burdell will have administration of the camp, which eventually may accommodate Art School students. Buildings will be remodeled into instrument rooms, blue printing and dark rooms, recreation and reading rooms, a general workshop for repairs and handicraft work, drafting rooms, lecture hall and an infirmary. Facilities will be provided for outdoor sports, including tennis, baseball, volleyball, and swimming.

There are 21 buildings on the property. The largest, the barn, will be main dormitory and drafting room, and administration quarters in summer. A large hay barn will be converted into a mess hall and recreation center with winter quarters for 25. A grist mill and machine shop at the entrance will become a machine shop for the engineering students.

The camp will have 100 summer students and about 25 at a time weekends during winter. As yet the school administration has provided for only the Civil Engineers and Freshmen at camp. It is hoped that in the future the camp will be opened to the entire school. Then all can enjoy the benefits of Mr. Green's gift.

CAMP

ALUMNI

Rather than speak of the accomplishments of the Alumni Association, I want to speak of the future. Of the past, I could describe a growth from a membership of 200 to over 700, a growth from a number, usually five or six, small alumni departmental bodies, to a unified purposeful alumni organization, or a growth from an occasional mimeographed announcement of a meeting, with a few friendly notes, to a regular Alumni News bulletin which is now finishing its fourth year of publication.

Of the future, it is you, the students and present graduates, who have its policies, its welfare; indeed its power, in your hands. We, who have grown up with the organization, must look to you for new life, a fresh viewpoint and the unbounded ambition of youth. We will tell you that what you want us to try, be it a new building, a new method, a new publication, is impossible. It is for you to show us that it is. It is you who will keep this Association alive; alive to new conditions, alive to new problems, alive to new solutions of our problems.

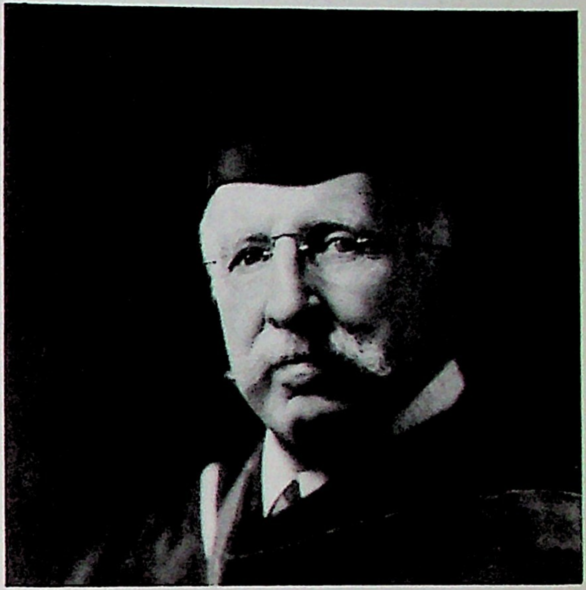
Above all, we want to keep in mind the purpose of the Alumni Association. Its purpose is primarily to help Cooper Union. It is only in that way that we can repay the future for what we have received. We have had the privilege of attending Cooper Union, we have received its benefits and we owe it, at least, our gratitude. At first, we cannot repay it financially for we are struggling to get on our feet. And it may be a long struggle, but Cooper men have those qualities of heart and mind which brings success. It may be long delayed, but for Cooper men, it *does* come.

It is during those years of struggling that we can help each other. By keeping in contact with the Alumni Association we occasionally meet our fellow-graduates, at dinners, at meetings, through notes in the news bulletin and from time to time an opportunity opens up. It is only by having a continuous contact that we can keep together. As we go through life, conditions change; there are depressions and booms, there are engagements and marriages, there are births and deaths. Each has its effect and unless there is a continuous contact we are very apt to drift away from Cooper Union and Cooper men. Even reading the Alumni News keeps a spark of that contact and this is sufficient to make it continuous.

Then, one of your fellow-graduates gets a bridge contract. "Say,—Joe was always good at arches; wonder what became of him?" With such wondering and a card to the Alumni Office, often a real opportunity knocks for "Joe." To you graduates that may sound far-fetched, but it is something of that nature that occurred only recently and it is a matter of personal experience with me.

It is too easy to sit back and say, "What is the Alumni Association doing, anyway?" We are

ASSOCIATION



Henry D. Williams, Honorary President.

trying to interest you and all the graduates in Cooper Union and in its alumni. You may not agree with our methods, nor with what we are doing, but you do not help by not joining. The best thing to do is to get in there and fight—fight for what you think we should do, fight to get others to agree with you, then fight to get enough of the alumni to help you accomplish what you think we should do. And the principal thing is the accomplishment.

When you graduate, join the Alumni Association. Take an active interest in its affairs. Help to guide it as soon as you can. Your interest is much more important than any money that you pay. Continue your interest and show us how to interest others. You will be helping yourselves and Cooper Union.

A. J. WOHLGEMUTH, E.E. '31
Secretary

AND WE HAVE SOCIETIES

This is my Fraternity

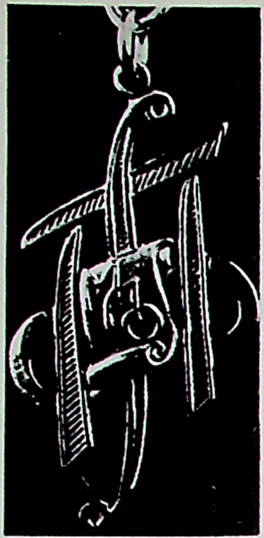
Here I find an opportunity to be frank and open in the expression of my true self; but if in so doing, I digress from the highest standards of society, I know that my brothers will not cease to guide me.

Here I work and play in the advancement of a common good.

I realize it is no credit to me to be a part of an organization which does not lift me up beyond my normal self. I know that the ideals of my fraternity are such that if I strive to attain them I shall be lifted up.

May I ever be mindful of the relationship I hold to my Fraternity. As a member, I owe it allegiance. I must work for its welfare, support its institutions and live within the bonds of true fellowship and brotherhood.

I AM THE FRATERNITY



MU ALPHA OMICRON

Top Row: P. Hagerty, M. Schwartz, M. Aquino, S. Rabinowitz, H. Goode, E. Tanner, J. Harrington, R. Rankel. *Bottom Row*: L. Strauss, J. Skiba, J. Spindler, R. Gordon, M. Slutsky, A. Rosen, S. Stark.

The past year has witnessed the greatest achievement and expansion of the Honor Society of the Cooper Union Schools of Engineering since Mu Alpha Omicron, the honor society of the Day School of Technology, was founded in 1926 to honor those students who, by their outstanding scholastic ability, integrity of character, and breadth of vision commanded the respect of their associates.

In the past, the society quietly and efficiently performed many services for both the school and student body, but was limited in the scope of its activities by its small size, which was a consequence not only of the rather severe qualifications for admission, but also of the restrictions of memberships to those students attending the Day School of Technology. Shortly after the recognition of the Night School of Engineering, there developed a strong feeling within the society for expansion of the membership to include both of the schools of engineering, resulting in the unanimous adoption of a resolution calling for every effort to bring about the inclusion-of the night men at the earliest possible moment. A new constitution was subsequently formulated and adopted. Immediate action was taken to carry out the terms of the new constitution with the result that a sizeable group of Night School men were admitted into the society this year.

A first long step was made in the direction of fulfillment of another of the society's major aims, namely, the establishment at Cooper Union of a Chapter of Tau Beta Pi, the national Engineering Honor Society. The completion of the work done in this direction will be the largest single task entrusted to the new membership.

In continuing its traditional policy of promoting a better understanding between faculty and students, the Mu Alpha Omicron held a number of informal dinners with various members of the Faculty and with selected student groups, from which many valuable suggestions bearing on the policies of the society were obtained. This activity, because of its constructiveness, and because of the directness with which it leads to the root of student problems, will be incorporated as one of the permanent activities of the Mu Alpha Omicron.

Among the more prominent activities of the society in the past year was the student aid plan, whereby several members were available during lunch hours every day of the week to those students seeking scholastic aid or advice. This plan placed upon a regular basis the cooperation which every member of the Mu Alpha Omicron has always given those of his fellow students who have requested it. The scheme grew more popular as the student body became familiar with it and recognized the great benefits that could be derived from it, and consequently it will be broadened so as to include both schools of engineering in the future.

Thus it is with satisfaction that the graduating members look back upon a year which filled the Mu Alpha Omicron with new blood, new life, and a new spirit of accomplishment. May it also serve as an inspiration to the new members, especially those who for the first time represent the Night School of Engineering, so that under their guidance the Mu Alpha Omicron may prosper and better serve both school and student.

EX POST FACTO

Frank Medon, Chairman
Dorothy Bloomfield
George Everson
June Ptacek

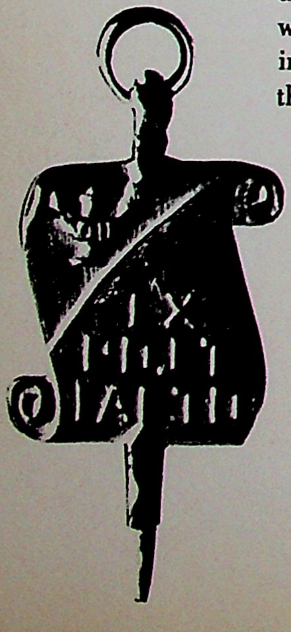
Stewart Walker
John Brice
Charles Merz
John Schmitt

At the start of every school year the CABLE resumes activity with a huge staff whose members are full of life and activity. Then something happens. Gradually the staff dwindles down until the wheat is separated from the chaff. Those who remain are workers—those who resign are shirkers.

It is the purpose of the Ex Post Facto to reward those members of the staff who have remained loyal to the CABLE. Those who have shown by their untiring labor, by their personal sacrifices of their free moments, and by their meritorious action, are given the highest honor the CABLE can bestow—that of being elected to the Ex Post Facto, the Honorary Society of the CABLE.

A further purpose of the society is to aid future CABLES by giving them the expert advice which had been tried under the fires of the preceding CABLES. The members of the Society thereby act as an advisory board. They do not try to force their suggestions to be carried out. It is merely advice which the existing CABLE staff may choose to use or reject.

Like any other school organization, the Ex Post Facto suffered the effects of graduation, leaving only three members in school. Their elections, held early in October, resulted as follows: Chairman, Bud Medon; Vice-Chairman, Marvin Weiss; Secretary-Treasurer, Dorothy Bloomfield. From then on they met once a month, reviewing the proceedings of the CABLE, and aiding with suggestions when they were able. Selection of new members of the society will take place in April. Everyone may be sure that those selected are worthy of their reward—that of the Ex Post Facto Key.



LAMBDA TAU

Samuel Spool
John Rozolis
Irving Quart
Morris Slutsky
Betty Alden

Irving Machlin
Irving Port
Sid Gordin
George Clark
John Koslowski
Stanley Hurwitz

"It appears that we have an aperture, a void,—hull, so to spik, on the front page," says *Pioneer* editor Marvin Weiss. Chancellor Machlin of Lambda Tau shifts a toothpick to the side of his mouth and solemnly intones, "Lambda Tau is now in conclave." Vice-Chancellor John Koslowski smiles grimly. Recorder Strauss smiles too, only not so grimly. Exchequer Sid Gordin opens his book on parliamentary procedure.

Thus, the groundwork has been laid for another meeting of Lambda Tau, *Pioneer* honorary society. In order to be eligible for membership, a member of the editorial staff must have worked on the paper for ten issues. New pledgees are admitted with proper ceremony in the early part of January and are awarded the fraternity pin if they pass the initiation ceremony. The ceremony is designed to test the applicant's courage and knowledge of parliamentary procedure.

Other members of Lambda Tau are, Ray Bendett, hardworking and unsung production manager; Sam (Cess) Spool, John Rozolis and Irv (Swing) Quart.

CHAPTERS
ALPHA
Cooper Union Night
BETA
Brooklyn Polytech
GAMMA
N.Y.U. Commerce
DELTA
Cooper Union Tech
EPSILON
Brooklyn College

Fratres in Facultate
Prof. H. C. Enders
C. George Kreuger
R. J. Kunz
Kenneth E. Lofgren
Otto C. Puller
Harry G. Taylor

Fratres in Collegio
James M. Allaire
Robert Brown
Charles Cichoski
August W. Dege
Albert L. Dunn
George A. Everson
Joseph Fegan
John J. Fiala
John Fulleylove
John Harrington
Ernest O. Juhl
Edward Kondrajian
Walter Koroshetz
Walter C. Ludwick
Bernard McLaren
Francis E. Medon
Jack Meng
Charles J. Merz
John H. Nicholson
Clifford Olesen
Charles Rohrs
George P. Rolly
Karl H. Rothe
Lothair Rowley
Charles E. Schaffner
John C. Schmitt
Louis J. Thaiz
Ernest H. Thalmann
Hugo Aglietti
Richard Barrett
Herman Berger
James V. Brady
Leonard Caputo
John Coffey
William P. Cole
Lucien Cook
John M. Erickson
Howard Fensterer
William J. Fitzpatrick
Bernard A. Fleck
Theodor H. Fritz
Thomas J. Frascella
Walter Garrison
George G. Gawel
F. Nelson Gilbert
Robert Hockenjos
Oscar Kummer
Joyn A. Lasco
George Misson
Carl Mistron
William D. Moore
C. Raymond Nelson
Herbert Niedhammer
Charles E. Olsen
William G. Pfann
George M. Phillips
Lawrence Picone
Vincent J. Reale
Everett R. Rausch
John F. Rey
Eugene A. Rosenberg
Fred W. Schmitz
Gustave W. Sedat
Edward G. Walsh
William I. Wolff

OMEGA DELTA PHI

The Omega Delta Phi Fraternity has for its chief object the promotion of lasting friendships among its members. It is through the welding influence of the fraternity that the casual acquaintances the student makes in the course of his education become lifelong friends. Just this in itself is an ideal worthy of the men who founded it.

It has been thirty-seven years since a small group of Cooper Union night students attempted the complex task of creating what we have inherited as an efficient and well-organized fraternity. Only by realizing the staggering difficulties inherent in building something where nothing has stood before, can one understand why we hold our founders in such high esteem. The brotherhood now consists of five chapters and a large Alumni body. The Alpha and Delta Chapters are located at the Cooper Union, the former associated with the Night School of Engineering and the latter with the Institute of Technology.

The activities of the fraternity are diversified, but in general it may be said it helps to alleviate the pressure of strict scholastic requirements combined with a very limited time schedule. For the undergraduate to maintain the equilibrium provided by social contacts and group amusements without the aid of a planning organization is difficult, to say the least. For many Cooper students, fraternity membership has solved this problem, as well as others of equal significance. It provides a meeting place near the school where a moment's relaxation can be found between classes, where help can be secured in solving of perplexing problems, and where there are always friends. To many of the brothers, the fraternity rooms are home transplanted to the proximity of their work.

Through the medium of the executive positions and standing committees entailed in the functions of chapter business, opportunity is provided for development of administrative ability. There is little doubt that this affords excellent training for

Top: Frank Medon, John Harrington, Walter Ludwick, Charles Merz, Edward Kondrajian, Walter Koroshetz, John Schmitt, Jack Meng.
Middle: George Everson, Joseph Fegan, George Rolly, Louis Thaiz, Clifford Olesen, Karl Rothe, Steve Einig.
Bottom: Ernest Thalmann, John Fulleylove, August Dege, Charles Cichoski, Lothair Rowley, Ernest Juhl. Charles Schaffner.

OMEGA DELTA PHI
DELTA

future business life, supplementing the advantage of a rigorous technical education such as given at Cooper.

In order that newcomers to the Cooper Union may be given an opportunity to familiarize themselves with the fraternity and its advantages, Freshman receptions are held in the beginning of the school year. At these functions every effort is made by the fraters to establish mutual acquaintance with the Freshmen. They are encouraged to visit the rooms freely, and urged to give serious thought to the advantages of membership. Since applicants may not be admitted as brothers until they have evidenced their scholastic ability by passing their first year subjects with satisfactory grades, ample time is provided for them to determine whether their ideas and ideals correspond with those upheld by the fraternity.

Formal meetings are held each month by the brothers, at which current affairs are discussed and plans laid out for the administration of future business.

Among the social occasions of the year are two formal Dances and the Annual Convention, in addition to a number of parties and smokers. A recent innovation among the Day School men are the Chapter picnics, usually held in the wilds of

Top Row: W. Niedhammer, A. Smith, C. Xeller. *Bottom Row*: J. Coffey, H. Berger, C. Olsen, E. Walsh, W. Phann, G. Phillips, R. Barrett, W. Wolff.

Westchester during favorable seasons. So successful have these little sojourns been that they threaten to become traditional. To the Alumni the formal Dances are highlights of the year, and they turn out in surprisingly large numbers. Here are their old friends, with whom they can discuss old times. Here also can they establish acquaintance with the younger fraters, all joining in the atmosphere of pleasantry with troubles forgotten.

At the end of each school year, in June, the Annual Convention is held. The program consists of outdoor and indoor sports, a business meeting, and a banquet. Tournaments are held among the Chapters and Alumni—in tennis, swimming, golf and softball. Awards to the winners spur the rivalry, and a boisterous good time is had by everyone.

It is to be hoped that this brief resumé of activities will enable a larger number of individuals to understand what the Omega Delta Phi Fraternity is and what it is doing as a part of the life of students at the Cooper Union. The fraternity rooms are located at 4 St. Marks Place, not even a block from the Foundation Building; the door stands always ajar.

CHAPTERS
ALPHA
Cooper Union
BETA
Newark College
GAMMA
New York University
DELTA
Pratt Institute

Fratres Honorares
John J. Currey
Edward A. Miller
William T. Peterson
Charles O. Roth, Jr.
Joseph J. Tanzola
Allan L. Tarr
Miles H. Van Buren
Christian T. Weaver

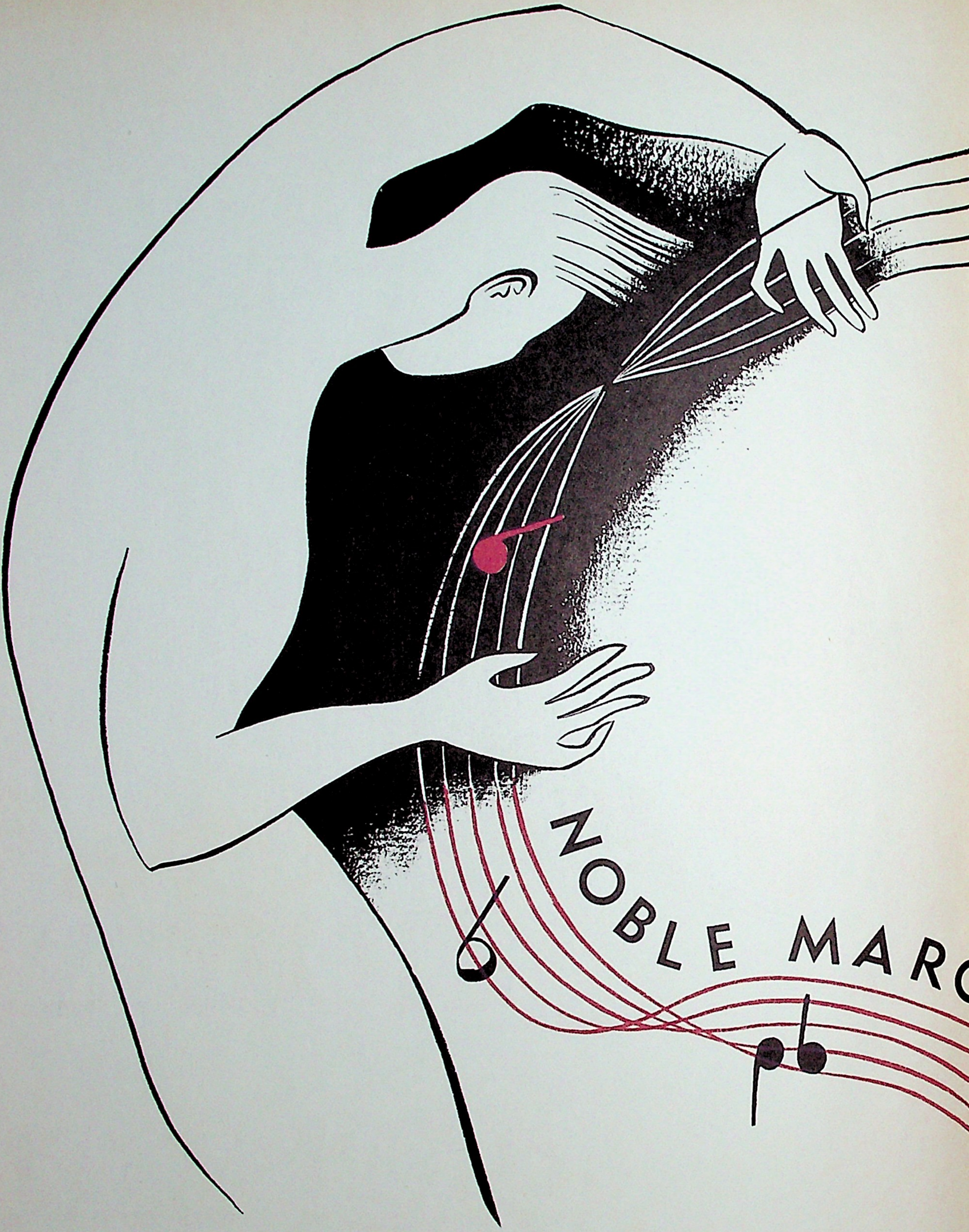
Fratres in Collegio
S. Alessi
A. Ancona
J. Badami
O. Chaber
H. Decker
J. DeLury
C. Eckel
G. Glucker
F. Hamel
C. Hauck
A. Higbee
E. Hofmann
J. Iarussi
H. Koch
E. Krukiel
F. Larkin
L. Lindquist
R. Lutz
D. Marstellar
F. McGinnis
W. Neary
W. Pesce
P. Poveromo
G. Quinn
G. Smith
A. Squitieri
J. Trier
F. Visentin
W. Walker
E. Wield

PHI SIGMA OMEGA

Top Row: G. Smith, C. Hubert, J. Swatko, W. Neary, P. Poveromo, E. Schenker, W. Walker, S. Schubert, C. Hauck, E. Maurer. *Middle Row*: E. Krukiel, J. Chovanec, F. Drechsler, E. Walsh, G. Zaharakis, G. Mazzitelli, R. Stewart, C. Grebert. *Bottom Row*: J. Badami, E. Hofmann, C. Pinto, K. Neuman, J. Iarussi, A. O'Lenick.

PRESENT BRIEF CASES FOR INSPECTION

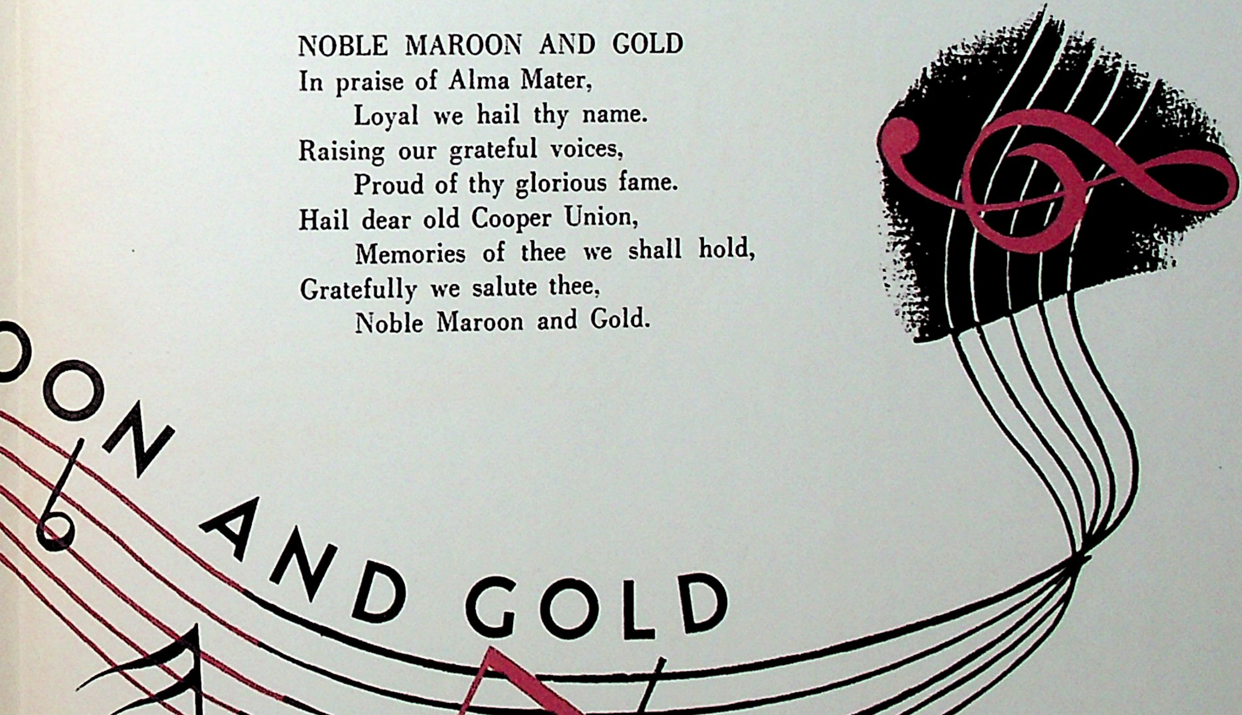
NOW WE CAN SING



NOBLE MARC

NOBLE MAROON AND GOLD

In praise of Alma Mater,
Loyal we hail thy name.
Raising our grateful voices,
Proud of thy glorious fame.
Hail dear old Cooper Union,
Memories of thee we shall hold,
Gratefully we salute thee,
Noble Maroon and Gold.



SENIOR ROSTER

Abler, Morton	245 Echo Pl., Bronx, N. Y.
Adams, Howard P.	65 Wegman Pkway., Jersey City, N. J.
Aquino, Michael T.	5810 11th Ave., Brooklyn, N. Y.
Balk, Leon J.	2441 East 24th St., Brooklyn, N. Y.
Balter, David W.	412 East 178th St., Bronx, New York
Bambara, Frank E.	394 2nd St., Brooklyn, N. Y.
Baskiewicz, Caspe S.	53 East 7th St., New York City
Bayuk, Bernard	901 West 6th St., Plainfield, N. J.
Belikowich, John	223 East 3rd St., New York City
Bendett, Raymond M.	251 Washington Ave., Brooklyn, N. Y.
Berkowitz, Alfred D.	306 East 15th St., New York City
Bernardo, Jack R.	115 Marcy Pl., Bronx, N. Y.
Bernstein, Solomon	715 VanSiclen Ave., Brooklyn, N. Y.
Block, Sidney	25 Chauncey St., Waterbury, Conn.
Bloom, Adelaide	192 Neptune Ave., Brooklyn, N. Y.
Bobsin, Gustav C.	30-07 83rd St., Jackson Heights, N. Y.
Boudon, Placer	1028 70th St., Brooklyn, N. Y.
Breitman, Milton	950 St. John Ave., Bronx, N. Y.
Brenner, Ruth	287 Hewes St., Brooklyn, N. Y.
Brice, C. Austin	143-19 105th Ave., Jamaica, N. Y.
Brown, Edith M.	40-2 220th St., Bayside, N. Y.
Brown, Gregary F.	34 East 11th St., New York City
Brownstein, Sam	333 East 17th St., New York City
Bruni, Albert P.	180 Utica Ave., Brooklyn, N. Y.
Brushansky, Roy	81 Blake Ave., Brooklyn, N. Y.
Burch, Robert	1104 Manor Ave., Bronx, N. Y.
Caligiuri, Edward	1533 East 23rd St., Brooklyn, N. Y.
Campbell, Margaret M.	418 West 57th St., New York City
Castellano, Frank J.	3602 Avenue J, Brooklyn, N. Y.
Center, Bernard M.	490 East 23rd St., Brooklyn, N. Y.
Christie, Helen M.	65 Horton Ave., New Rochelle, N. Y.
Cika, Robert J.	609 West 196th St., New York City
Cohen, Beatrice	1997-02 Hughes Ave., Bronx, N. Y.
Cohen, Ruth	477 East 2nd St., Brooklyn, N. Y.
Cooper, Mae	615 Westminster Rd., Brooklyn, N. Y.

CORN EXCHANGE BANK TRUST COMPANY

Established 1853

A Bank Statement that any Man or Woman can Understand

Condensed Statement as of close of business December 31, 1939.

Due Individuals, Firms, Corporations and Banks	$338,420,005.54
To meet this indebtedness we have:	
Cash in Vaults and Due from Banks	$132,260,599.63
Cash Items in Process of Collection	17,462,569.60
*U. S. Government Securities (Direct and fully guaranteed, including $3,051,000. pledged to secure deposits and for other purposes as required by law)	130,749,750.00
*Canadian Government Securities	4,732,392.50
*State, County and Municipal Bonds	2,085,592.82
*Other Tax Exempt Bonds	5,741,787.50
*Railroad Bonds	5,914,977.50
*Public Utility Bonds	7,507,063.47
*Industrial and Other Bonds	3,587,745.97
18,000 Shares Federal Reserve Bank of New York	900,000.00
2,499 Shares Discount Corporation of New York at cost	299,880.00
9,990 Shares Corn Exchange Safe Deposit Co.	811,500.00
Sundry Securities	322,435.00
Secured Demand Loans	15,297,020.97
Secured Time Loans	2,065,441.19
*Loans and Discounts Unsecured	8,735,903.63
*First Mortgages	17,861,528.91
Customers' Liability on Acceptances	1,126,633.55
*Banking Houses Owned	12,055,118.92
*Other Real Estate Owned	1,906,540.08
Accrued Interest Receivable	972,580.23
Other Assets	88,084.31
TOTAL TO MEET INDEBTEDNESS	$372,485,145.78
This Leaves	$34,065,140.24

*Less Reserves.

Capital, $15,000,000.00; Surplus and Undivided Profits, $19,065,140.24

We can act as your Executor or Trustee, issue Letters of Credit, Travelers' Checks and Drafts on Foreign Countries and provide every Banking and Trust Service.

74 Branches located in all Parts of the City of New York

Member Federal Deposit Insurance Corporation

Czovek, Stephen .... 450 East 89th St., New York City

D'Angelo, Ivan R. .... 78 West 85th St., New York City
Dattel, Benjamin .... 1286 Webster Ave., New York City
Diamond, Isidore .... 555 Powell St., Brooklyn, N. Y.
Donnelly, Harold .... 216 Jane St., Weehawken, N. J.
Dworkowitz, Abraham .... 2980 Brighton 12th St., Brooklyn, N. Y.
Dworkowitz, Milton .... 440 East 6th St., New York City

Eisemann, Alvord L. .... 575 West End Ave., New York City
Elovitz, Joseph .... 2710 Sedgwick Ave., Bronx, N. Y.
Eyerman, Victor F. .... 725 Dumont Ave., Brooklyn, N. Y.

Falkin, Murray .... 1280 East 18th St., Brooklyn, N. Y.
Fegan, Joseph C. .... 1260 Havemeyer Ave., Bronx, N. Y.
Fleck, Bernard A. .... 89 Allison Ave., Yonkers, N. Y.
Fox, George A. .... 1837 Ocean Ave., Brooklyn, N. Y.
Frankenstein, George .... 438 Hendrix St., Brooklyn, N. Y.
Frascella, Thomas J. .... 779 Livonia Ave., Brooklyn, N. Y.
Friedman, Jerome .... 114 East 11th St., New York City
Friedman, Joseph .... 4807 8th Ave., Brooklyn, N. Y.
Frisch, Oscar .... 323 Dahill Rd., Brooklyn, N. Y.

Gerasimchik, John .... 1405 Avenue Y, Brooklyn, N. Y.
Gerland, Maurice J. .... 111-34 124th St., Ozone Park, N. Y.
Gilman, Samuel .... 2175 Morris Ave., Bronx, N. Y.
Glaser, August J. .... 1062 Westside Ave., Jersey City, N. J.
Glass, Max .... 718 Gates Ave., Brooklyn, N. Y.
Goldman, Isidore .... 124-02 Rockaway Blvd., Ozone Park, N. Y.
Goldstein, Bernard .... 1705 Andrews Ave., Bronx, N. Y.
Goode, Harry H. .... 1005 Walton Ave., Bronx, N. Y.
Goodman, Ralph .... 2440 Laconia Ave., Bronx, N. Y.
Gordon, Robert .... 2051 Ryre Ave., Bronx, N. Y.
Gormezano, Isaac J. .... 1151 Stratford Ave., Bronx, N.Y.
Greenberg, Mishel .... 1440 54th St., Brooklyn, N. Y.
Grohse, Edward W. .... 73-30 71st St., Glendale, N. Y.
Gutovitz, Leon .... 92 Newport St., Brooklyn, N. Y.
Guzzardi, Sam .... 1831 55th St., Brooklyn, N. Y.

Hagerty, Philip E. .... 360 East 234th St., Bronx, N. Y.
Hanft, John D. .... 1301 Hoe Ave., Bronx, N. Y.
Harrington, John .... 1769 East 14th St., Brooklyn, N. Y.
Holesek, Martin A. .... 1882 Putnam Ave., Brooklyn, N. Y.

With Compliments of

A FRIEND

You are cordially invited to visit our new store!
Exclusively Photographic—The most modern store
in New York City . . . Every Convenience . . .
Dark Rooms, Projection Room, Air-conditioned
Color Room . . . Permanent Print Exhibit
Courteous Clerks—Fully informed
on all photographic subjects.

Our Prices Are Right - Our Service the Best

MURPHY'S
57 EAST NINTH STREET
(near Wanamaker's & Broadway)

GRamercy 5-8327 Free Instruction to Students

ST. MARKS RECREATION
Bowling and Billiards

9 ST. MARKS PLACE NEW YORK

Reservations for Clubs and Leagues
C. S. La Barbera

GENERAL AIRBRUSH MFG. CO.
101-103 LEXINGTON AVE. N. Y. C.
Bet. 27th & 28th Sts. CAledonia 5-3231

Headquarters for All Makes of Foreign and
Domestic Artists' and Commercial Airbrushes
Compressors and Accessories
Unequalled Repair Service Since 1914
Complete Line of Artists' Materials

ALgonquin 4-2994 GRamercy 5-9668

LEVENBACK LUMBER CO., Inc.
All Kinds of Soft and Hardwood
Kiln Dry Lumber
Cutting Tables in All Sizes

65-67 EAST TWELFTH STREET
Bet. Broadway & 4th Ave. New York City

Compliments
of the

SAGAMORE
CAFETERIA

19 THIRD AVENUE
NEW YORK, N. Y.

GRamercy 7-8088-8089

KAMINSTEIN BROS.
HARDWARE
Paints and Supplies

Two Stores
29 THIRD AVENUE
1185 SIXTH AVENUE
New York

GRamercy 5-4151-4152 Geo. D. Sakas

UNIVERSITY FLOWER SHOP
FLOWERS FOR ALL OCCASIONS
51 UNIVERSITY PLACE S.E. Cor. 10th St. **NEW YORK**

Horsting, Philip C. .... 149 Norwood Ave., Brooklyn, N. Y.

Isaacs, Jacqueline H. .... 29 Cedars Rd., Caldwell N. J.

Jahrling, Robert J. .... 161-43 86th Ave., Jamaica, N. Y.

Kagan, Samuel .... 1426 Walton Ave., Bronx, N. Y.
Kalfaian, Edward H. .... 381 Palisade Ave., Union City, N. J.
Kane, Bertram .... 416 68th St., Brooklyn, N. Y.
Kaplan, Malcolm .... 321 Adelphi St., Brooklyn, N. Y.
Kaufman, Paul .... 1206 55th St., Brooklyn, N. Y.
Kay, Alfred .... 773 Cranford Ave., Bronx, N. Y.
Keaveny, Thomas .... 448 West 57th St., New York City
Kent, George .... 206 East Harriet Ave., Palisades Park, N. J.
Kirschen, Florence .... 1881 Grand Concourse, New York City
Kondrajian, Edward .... 3144 35th St., Long Island City, N. Y.
Koroshetz, Walter .... 1711 Greene Ave., Queens, N. Y.
Kozlowski, John J. .... 327 Montgomery St., Jersey City, N. J.
Krause, Edward .... 4295 Napier Ave., New York City
Krulewitz, George .... 663 Powell St., Brooklyn, N. Y.
Kummer, Oscar .... 32 Cornelia St., Brooklyn, N. Y.

Lacoff, Hyman .... 1040 Bryant Ave., Bronx, N. Y.
Lally, William .... 137 35th St., Union City, N. J.
Lawrence, William .... 1520 Crotona Park East, Bronx, N. Y.
Layman, Frank .... 315 45th St., Union City, N. J.
Lee, Nathan .... 295 East 31st St., Paterson, N. J.
Linder, Francis .... 604 River Ter., Hoboken, N. J.
Linsky, Horace .... 921 East 31st St., Brooklyn, N. Y.

Maccari, Raymond R. .... 416 Himrod St., Brooklyn, N. Y.
Machlin, Irving .... 4402 Snyder Ave., Brooklyn, N. Y.
Marchetti, Joseph P. .... 1411 Jefferson Ave., Brooklyn, N. Y.
Matzick, Arthur .... 1036 4th Pl., North Bergen, N. J.
McLaren, Bernard F. .... 24 Tuckahoe Ave., Tuckahoe, N. Y.
Mercer, Marjorie L. .... Mill Lane, Bronx, N. Y.
Michaels, S. Eugene .... 85-52 76th St., Woodhaven, N. Y.
Middleton, John F. .... 346 East 205th St., New York City
Miller, Abraham .... 7932 69th Ave., Queens, N. Y.
Miller, Leon M. .... 2800 Bronx Park East, Bronx, N. Y.
Miller, Meyer .... 608 Tinton Ave., Bronx, N. Y.
Mueller, Herman .... 710 West 173d St., Bronx, N. Y.
Muhlmeister, Daniel M. .... 19 Birch St., Lincoln Park, N. J.

LABORATORY FURNITURE

for Schools - Hospitals - Industries

E. H. SHELDON & CO.

MUSKEGON, MICHIGAN

11 W. FORTY-SECOND STREET
New York City

Visit New Laboratories in Cooper Union

Compliments of . . .

THE SHAW-WALKER COMPANY

CHRYSLER BUILDING
New York City

Visit the World's Finest Showroom of Business Furniture and Filing Equipment located on the third floor of the Chrysler Building.

OFFICIAL PHOTOGRAPHER

of "THE CABLE"

HARR INC.

PORTRAIT PHOTOGRAPHERS

Nine Studios Throughout Greater New York City

Executive Offices

607 FIFTH AVENUE

PLaza 3-0651

Naidich, Murray........3451 Giles Pl., Bronx, N. Y.
Nalbach, Ottilie F........1814 George St., Ridgewood, N. Y.
Neshin, Irving S........136 West 28th St., Bayonne, N. J.

Orgel, Julius H........88 Taylor St., Brooklyn, N. Y.

Perez, Henry T........36 Pondfield Rd. W., Bronxville, N. Y.
Pettit, James A........9730 108th St., Queens, N. Y.
Pfann, William G........75-48 Juniper Valley Rd., Queens, N. Y.
Piazzani, Lavinia........903 Clinton St., Hoboken, N. J.
Pierce, Robert L........206 East 16th St., New York City
Pincus, Jack E........415 East 54th St., Brooklyn, N. Y.
Plotkin, Isidore........2709 Avenue U, Brooklyn, N. Y.
Plotkin, Oscar........620 Trinity Ave., Bronx, N. Y.
Pohle, Frederick V........26 Kossuth Pl., Brooklyn, N. Y.
Poland, Hyman........31 Pile St., New York City
Poppe, Helen M........1528 Bedford Ave., Brooklyn, N. Y.
Port, Julius........301 Wyona St., Brooklyn, N. Y.
Provost, Eleanor L........238 Union St., Jersey City, N. J.

Quart, Irving........1381 Franklin Ave., Bronx, N. Y.
Quattlander, Frank P........3425 42nd St., Long Island City, N. Y.
Quinn, Edward W........4722 11th Ave., Brooklyn, N. Y.
Quinn, George P........410 West 57th St., New York City

Rabinowitz, Samuel........312 Bradford St., Brooklyn, N. Y.
Rankel, Robert A........302 Linder St., Brooklyn, N. Y.
Rappaport, Irving........409 East 4th St., Brooklyn, N. Y.
Richards, George E........135 Passaic Ave., Hawthorne, N. J.
Rogin, Milton........1348 Sheridan Ave., Bronx, N. Y.
Rolly, George P........424 Beach 129th St., Rockaway Beach, N. Y.
Rosen, Charles A........114 East 11th St., New York City
Rothmayer, Jules........50-05 45th St., Woodside, N. Y.
Rudat, Lina........409 Stanhope St., Ridgewood, N. Y.
Ruopp, Howard........84 Derby St., Valley Stream, N. Y.

Sabo, Irving........916 Southern Blvd., Bronx, N. Y.
Schaefer, Frank........812 Fairmount Pl., Bronx, N. Y.
Schein, Herbert........106-12 107th Ave., Ozone Park, N. Y.
Schiappa, Anthony........6354 Forrest Ave., Ridgewood, N. Y.
Schlackman, Herman........1502 Vyse Ave., Bronx, N. Y.
Schwartz, Murray........783 Beck St., Bronx, N. Y.

JOIN THE ACTIVITIES PLAN

Receive All Benefits

Pioneer

Cable

Annual Dance

Basketball Home Games and Clubs, etc.

We manufacture a complete line of laboratory glassware and maintain a large stock of all other equipment for use in the modern chemical laboratory.

Literature available on request.

SCIENTIFIC GLASS APPARATUS COMPANY

BLOOMFIELD . . . . NEW JERSEY

COX SONS & VINING, Inc.
Established 1837
131 EAST TWENTY-THIRD STREET
New York

Makers of Correct Style
CAPS and GOWNS
ACADEMIC HOODS
JUDICIAL ROBES
CHOIR OUTFITS

Known for Quality and Service

With Compliments of

O. D. P.

With Compliments of

P. S. O.

Shapiro, Leo........404 East 48th St., Brooklyn, N. Y.
Siegel, Moses........1688 52nd St., Brooklyn, N. Y.
Silverstone, Daniel........615 West 164th St., Bronx, N. Y.
Skiba, John........28-28 29th St., Long Island City, N. Y.
Slutzky, Morris........1421 35th St., Brooklyn, N. Y.
Smith, Arthur........394 Quincy St., Brooklyn, N. Y.
Somson, Alfred........1789 Davidson Ave., Bronx, N. Y.
Sonberg, Hyman........3100 Brighton 7th St., Brooklyn, N. Y.
Spindler, Joseph C........126 Linden St., Brooklyn, N. Y.
Spohn, Louise........121 Lake St., East White Plains, N. Y.
Stark, Sidney........245 Harrott Ave., Bridgeport, Conn.
Strauss, Leo........2206 Ocean Pkway., Brooklyn, N. Y.
Strauss, Max........5703 New Utrecht Ave., Brooklyn, N. Y.
Strom, Barney........5104 Clarendon Rd., Brooklyn, N. Y.

Tamezian, Nishan........113 East 17th St., New York City
Tanner, Edmund........37 North Myrtle Ave., Spring Valley, N. Y.
Tanzer, Milton A........2076 Clinton Ave., Bronx, N. Y.
Tenzer, Milton........234 Long Beach Rd., Island Park, N. Y.
Tucker, Walter D........245 Putnam Ave., Brooklyn, N. Y.

Valenti, Josephine........8320 97th Ave., Ozone Park, N. Y.
Von Storch, Ernest H........65 Waring Pl., Yonkers, N. Y.

Walsh, Edward G........6613 73rd Pl., Maspeth, N. Y.
Warner, Edward H........Maple Ave., Bellmore, N. Y.
Wasserman, David........747 Southern Blvd., Bronx, N. Y.
Wiepert, John........1451 Overing St., Bronx, N. Y.
Weitz, Saul........797 East 166th St., Bronx, N. Y.
Weixel, John J........56 Jefferson St., Nyack, N. Y.
Wendrow, Benjamin R........1983 Bryant Ave., Bronx, N. Y.
Whiteside, Stanley D........119 Audubon Ave., Bronx, N. Y.
Winer, Burton G........30 East 22nd St., New York City
Wizemann, Leslie........2247 Story Ave., Bronx, N. Y.
Wolff, Ellis A........8405 108th St., Richmond Hill, N. Y.
Wolff, Herbert........502 New Lots Ave., Brooklyn, N. Y.
Woods, Miriam........69 Tieman Pl., Bronx, N. Y.

Zalinsky, Joseph........1545 Dahill Rd., Brooklyn, N. Y.
Zinberg, Eli........1509 38th St., Brooklyn, N. Y.
Zucchino, Hector........937 Angelique St., North Bergen, N. J.
Zucker, James P........171 Grand St., Brooklyn, N. Y.
Zuckerman, Morris........2024 Honeywell Ave., Bronx, N. Y.

WE

We are indebted to the following for their willing sacrifice of time and for the assistance they gave in the completion of the 1940 CABLE:

Art Work

Morton Abler
Ruth Cohen
Al Eiseman
Maurice Gerland
Miriam Woods

Contributors

Walter A. Barron
Bernard Bayuk
Eleanor E. Eller
Joseph Elovitz
John A. Glaser
Edward W. Grohse
Melvin M. Holzsager
William Horodeck
Helena Huerlander
Henry Kleindienst
John J. Kozlowski
Paul Lubell
Joseh Maurin
Ralph Medaisky
Samuel Rabinowitz
John T. Ross
Doris Rubenfeld
Harold Sjogren
Alan L. Sielke
Daniel Silverstone
Robert H. Ullrich
Gilbert Weiner
Saul Weitz
Cora Wisoff
Ernest G. Lucken

Office Staff

Robert Brown
Raymond Dahl
August W. Dege
Frances H. Devine
Charles J. Merz
Irene Nyski
Karl H. Rothe
Rosmary Van Dyke
Charles A. Erway

ACKNOWLEDGE

We of the 1940 CABLE Staff wish to express our appreciation for the invaluable assistance of the following persons in the production of this book. We are extremely grateful for the aid which Sylvia Rosen of the Comet Press, Inc., so unselfishly gave, cooperating with the editors and lending her wide experience and technical skill, without which this volume would not have been completed.

Samuel Chernoble, Samuel Goldman, and Jack Berger who generously extended to us the facilities of the Comet Press, Inc., for editorial work and staff meetings.

Mr. Shaw for his able advice and his willing assistance.

The Humanities Department of the Cooper Union, especially Prof. Lynch, Mr. Bowman, and Mr. Childs for their literary advice.

Larry Tarr and Jacqueline Decker of H. Tarr Studios.

John R. Safford of the Cooper Union.

John "Scotty" McKechnie.

We cannot overemphasize the importance of this aid, and we hope that the Readers will be as appreciative as we,

THE 1940 CABLE STAFF

P/S

In closing, we'd just like to say that it has been a pleasure to work with the staff in producing such a fine annual. We are proud to add this book to our library of Comet Publications.

Sincerely,
The Comet Press, Inc.
One Junius Street
Brooklyn, N. Y.

Eisenman
Eisenman

Eisenman